Berliner

Astronomisches Jahrbuch

für

1929

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154. Jahrgang

Herausgegeben von dem

Astronomischen Rechen-Institut

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(Kommissionsverlag)

1927


BIBLIOTHECA
UNIV. JAGELL.
CRACOVIENSIS

Vorwort

Vom Jahrgang 1916 an ist der fundamentale Meridian, auf den alle Angaben des Jahrbuchs bezogen sind, der Meridian von Greenwich.

Die Zeit ist vom Jahrgang 1925 an in Welt-Zeit, d. i. Bürgerliche Zeit Greenwich, ausgedrückt (siehe Erläuterungen).

Die Grundlagen des Berliner Astronomischen Jahrbuchs bilden:

Für die Sonne und die großen Planeten:

Die Tafeln von Newcomb und (für Jupiter und Saturn) von Hill, enthalten in:

Astronomical Papers of the American Ephemeris,
Vol. VI, Part I—IV: *Tables of the four inner planets,*
Vol. VII, Part I—IV: *Tables of Jupiter, Saturn, Uranus, Neptune.*

Als Sonnenhalbmesser in der mittleren Entfernung ist $16' 1''.50$ angenommen; dagegen liegt der Berechnung der Finsternisse der von Auwers in A. N., Bd. 128 gegebene Wert $15' 59''.63$ zugrunde.

Für den Mond:

Tables of the Motion of the Moon by Ernest W. Brown.

Der geozentrische Mondhalbmesser $r_☾$ ist aus der Äquatorial-Horizontalparallaxe $p_☾$ gerechnet nach der Formel

$$r_☾ = 0.272469\, p_☾ + 1''.50,$$

für die Finsternisse nach $\sin r_☾ = 0.272274 \sin p_☾$.

Als Neigung des Mondäquators gegen die Ekliptik ist nach F. Hayn (A. N. **199**, 263) angenommen: $J = 1° 32' 20''$.

Für die Fixsterne:

Neuer Fundamentalkatalog des Berliner Astronomischen Jahrbuchs nach den Grundlagen von A. Auwers, für die Epochen 1875 und 1900 bearbeitet von Dr. J. Peters (Veröffentlichung Nr. 33 des Königlichen Astronomischen Rechen-Instituts).

Die Sterngrößen sind der »Revised Harvard Photometry (Harvard Annals, vol. 50)«, die Sternspektra dem »Henry Draper Catalogue (Harvard Annals, vol. 91—99)« entnommen.

Als Werte der fundamentalen Reduktionsgrößen sind angenommen:

Die Präzessions-Größen nach S. Newcomb (vgl. H. Andoyer, Bull. Astr. **28**, 67)
Die Nutations-Konstante . . . . 9″.21
Die Nutations-Größen nach S. Newcomb (Bull. Astr. **15**, 241)
Die Aberrations-Konstante . . . . 20″.47
Die Sonnen-Parallaxe . . . . 8″.80
Die Abplattung der Erde . . . 1 : 297.0

Für die Satelliten:

Die Angaben über die 4 älteren Jupitertrabanten beruhen auf den neuen Tafeln von R. A. Sampson (*Tables of the four great Satellites of Jupiter.* London 1910), die Angaben über die 8 älteren Saturnsatelliten auf den von H. Struve ermittelten Werten (Näheres s. Erläuterungen).

In allen Ephemeriden der Sonne, der Planeten und der Fixsterne sind die kurzperiodischen, von der Mondlänge abhängigen Nutationsglieder weggelassen; doch bietet das Jahrbuch die Möglichkeit, auch diese weggelassenen Glieder zu berücksichtigen (s. Erläuterungen).

Vom vorliegenden Jahrgang an wird eine Tafel zur Übertragung von Rektaszensions- und Deklinationsdifferenzen vom mittleren Äquinoktium des Jahresanfanges auf das Normaläquinoktium 1925.0 gegeben. Ferner sind die in Mitteleuropa sichtbaren Sternbedeckungen aufgeführt; sonst hat der Inhalt des Jahrbuchs gegen das Vorjahr keine Änderungen erfahren.

Bezüglich der Zahlengrundlagen sei auf die im Berliner Jahrbuch für 1916 gegebene Darstellung der »Grundbegriffe der Sphärischen Astronomie« hingewiesen.

Ein Teil der Angaben wurde seitens des Nautical Almanac Office, Washington, und des Nautical Almanac Office, London, zur Verfügung gestellt. Die Ephemeride des Kraters Mösting A. ist von dem Institut Astronomique in Leningrad berechnet worden, welches auch die Berechnung der beiden Saturnstrabanten Hyperion und Japetus ausgeführt hat.

Die Schriftleitung des Astronomischen Jahrbuchs für 1929 lag in den Händen von Herrn Peters, an den verschiedenen Arbeiten beteiligten sich außerdem die Herren Clemens, Stichtenoth †, Kohl und Hiller.

Astronomisches Rechen-Institut.

Inhalt

Zeit- und Festrechnung 1929

Das Jahr 1929 entspricht dem
Jahr 6642 der Julianischen Periode und dem
Jahr 7437 — 7438 der Byzantinischen Ära

Gregorianischer Kalender

Goldene Zahl	11
Epakte	XIX
Sonnenzirkel	6
Römerzinszahl	12
Sonntagsbuchstabe	F

Septuagesima	27. Jan.
Aschermittwoch	13. Febr.
I. Quatember	20. Febr.
Ostersonntag	31. März
Himmelfahrt	9. Mai
Pfingstsonntag	19. Mai
II. Quatember	22. Mai
III. Quatember	18. Sept.
I. Advent	1. Dez.
IV. Quatember	18. Dez.

Kalender der Mohammedaner

1347 (Schaltjahr)

Schabân	1	1929	Jan.	13
Ramadân	1	»	Febr.	11
Schewwâl	1	»	März	13
Dsû 'l-kade	1	»	April	11
Dsû 'l-hedsche	1	»	Mai	11

1348 (Gemeinjahr)

Moharrem	1	1929	Juni	9
Safar	1	»	Juli	9
Rebî-el-awwel	1	»	Aug.	7
Rebî-el-accher	1	»	Sept.	6
Dschemâdi-el-awwel	1	»	Okt.	5
Dschemâdi-el-accher	1	»	Nov.	4
Redscheb	1	»	Dez.	3

Kalender der Juden

5689 (Überzähliges Schaltjahr, 385 Tage)

Monat	Tag	Fest	Jahr	Monat	Tag
Schebat	1	. . . .	1929	Jan.	12
Adar	1	. . . .	»	Febr.	11
»	14	Klein Purim	»	»	24
Veadar	1	. . . .	»	März	13
»	13	Fasten-Esther	»	»	25
»	14	Purim	»	»	26
»	15	Schuschan-Purim	»	»	27
Nisan	1	. . . .	»	April	11
»	15	*Passah-Anfang	»	»	25
»	16	*Zweites Fest	»	»	26
»	21	*Siebentes Fest	»	Mai	1
»	22	*Achtes Fest	»	»	2
Ijar	1	. . . .	»	»	11
»	18	Lag-B'omer	»	»	28
Sivan	1	. . . .	»	Juni	9
»	6	*Wochenfest	»	»	14
»	7	*Zweites Fest	»	»	15
Thamuz	1	. . . .	»	Juli	9
»	17	Fasten. Tempeleroberung	»	»	25
Ab	1	. . . .	»	Aug.	7
»	9	Fasten. Tempelverbrennung . . .	»	»	15
Elul	1	. . . .	»	Sept.	6

5690 (Abgekürztes Gemeinjahr, 353 Tage)

Monat	Tag	Fest	Jahr	Monat	Tag
Tischri	1	*Neujahrsfest	1929	Okt.	5
»	2	*Zweites Fest	»	»	6
»	3	Fasten-Gedaljah	»	»	7
»	10	*Versöhnungsfest	»	»	14
»	15	*Laubhüttenfest	»	»	19
»	16	*Zweites Fest	»	»	20
»	21	Palmenfest	»	»	25
»	22	*Versammlung oder Laubhüttenende .	»	»	26
»	23	*Gesetzesfreude	»	»	27
Marcheschwan	1	. . . .	»	Nov.	4
Kislev	1	. . . .	»	Dez.	3
»	25	Tempelweihe	»		27

Die mit * bezeichneten Festtage werden streng gefeiert

Astronomische Zeichen und Abkürzungen

Bezeichnung
der
Wochentage

- ☉ Sonntag
- ☾ Montag
- ♂ Dienstag
- ☿ Mittwoch
- ♃ Donnerstag
- ♀ Freitag
- ♄ Sonnabend

Adspekten

- ☌ Konjunktion
- □ Quadratur
- ☍ Opposition

Mondphasen

- ● Neumond
- ◐ Erstes Viertel
- ○ Vollmond
- ◑ Letztes Viertel

☊ Aufsteigender } Knoten
☋ Niedersteigender } Knoten

Zeichen
des Tierkreises und der Himmelskörper

♈ Widder . . .	0 Grad		
♉ Stier	30	»	☉ Sonne
♊ Zwillinge . .	60	»	☾ Mond
♋ Krebs	90	»	☿ Merkur
♌ Löwe	120	»	♀ Venus
♍ Jungfrau . .	150	»	♁ Erde
♎ Wage	180	»	♂ Mars
♏ Skorpion . .	210	»	♃ Jupiter
♐ Schütze . . .	240	»	♄ Saturn
♑ Steinbock . .	270	»	♅ Uranus
♒ Wassermann	300	»	♆ Neptun
♓ Fische . . .	330	»	

Sonne, Mond, Große Planeten

1929

Tag		Wochentag	0ʰ Welt-Zeit							
			Zeitgleichung Mittlere Zeit *minus* Wahre Zeit		Scheinbare Rektaszension		Scheinbare Deklination		Halbe Durchgangs-Dauer St.-Zt.	Halbmesser
1929			m s	s	h m s	m s	° ′ ″	′ ″	s	′ ″
Jan.	0	Mo	+ 2 50.73	28.66	18 39 31.82	4 25.22	−23 8 18.3	4 24.4	71.11	16 17.86
	1	Di	3 19.39	28.38	18 43 57.04	4 24.94	23 3 53.9	4 52.1	71.08	16 17.86
	2	Mi	3 47.77	28.08	18 48 21.98	4 24.63	22 59 1.8	5 19.5	71.03	16 17.86
	3	Do	4 15.85	27.73	18 52 46.61	4 24.29	22 53 42.3	5 46.8	70.98	16 17.86
	4	Fr	4 43.58	27.35	18 57 10.90	4 23.91	22 47 55.5	6 14.0	70.93	16 17.85
	5	Sa	5 10.93	26.95	19 1 34.81	4 23.51	22 41 41.5	6 41.1	70.87	16 17.83
	6	St	+ 5 37.88	26.52	19 5 58.32	4 23.08	−22 35 0.4	7 7.9	70.81	16 17.81
	7	Mo	6 4.40	26.06	19 10 21.40	4 22.62	22 27 52.5	7 34.4	70.75	16 17.78
	8	Di	6 30.46	25.56	19 14 44.02	4 22.12	22 20 18.1	8 0.9	70.69	16 17.75
	9	Mi	6 56.02	25.04	19 19 6.14	4 21.59	22 12 17.2	8 27.1	70.62	16 17.72
	10	Do	7 21.06	24.49	19 23 27.73	4 21.04	22 3 50.1	8 52.9	70.54	16 17.69
	11	Fr	7 45.55	23.91	19 27 48.77	4 20.47	21 54 57.2	9 18.6	70.47	16 17.65
	12	Sa	+ 8 9.46	23.30	19 32 9.24	4 19.86	−21 45 38.6	9 44.0	70.39	16 17.60
	13	St	8 32.76	22.67	19 36 29.10	4 19.24	21 35 54.6	10 9.1	70.30	16 17.55
	14	Mo	8 55.43	22.03	19 40 48.34	4 18.58	21 25 45.5	10 33.9	70.22	16 17.50
	15	Di	9 17.46	21.35	19 45 6.92	4 17.90	21 15 11.6	10 58.4	70.13	16 17.44
	16	Mi	9 38.81	20.64	19 49 24.82	4 17.20	21 4 13.2	11 22.6	70.03	16 17.38
	17	Do	9 59.45	19.92	19 53 42.02	4 16.49	20 52 50.6	11 46.3	69.93	16 17.32
	18	Fr	+10 19.37	19.19	19 57 58.51	4 15.75	−20 41 4.3	12 9.8	69.84	16 17.25
	19	Sa	10 38.56	18.44	20 2 14.26	4 15.00	20 28 54.5	12 33.0	69.74	16 17.18
	20	St	10 57.00	17.68	20 6 29.26	4 14.23	20 16 21.5	12 55.8	69.64	16 17.10
	21	Mo	11 14.68	16.91	20 10 43.49	4 13.46	20 3 25.7	13 18.3	69.54	16 17.01
	22	Di	11 31.59	16.12	20 14 56.95	4 12.67	19 50 7.4	13 40.3	69.43	16 16.93
	23	Mi	11 47.71	15.33	20 19 9.62	4 11.89	19 36 27.1	14 2.0	69.33	16 16.83
	24	Do	+12 3.04	14.54	20 23 21.51	4 11.10	−19 22 25.1	14 23.3	69.22	16 16.73
	25	Fr	12 17.58	13.74	20 27 32.61	4 10.30	19 8 1.8	14 44.4	69.11	16 16.62
	26	Sa	12 31.32	12.95	20 31 42.91	4 9.50	18 53 17.4	15 5.1	69.00	16 16.51
	27	St	12 44.27	12.15	20 35 52.41	4 8.71	18 38 12.3	15 25.2	68.88	16 16.39
	28	Mo	12 56.42	11.35	20 40 1.12	4 7.91	18 22 47.1	15 45.1	68.77	16 16.26
	29	Di	13 7.77	10.55	20 44 9.03	4 7.11	18 7 2.0	16 4.8	68.66	16 16.13
	30	Mi	+13 18.32	9.75	20 48 16.14	4 6.31	−17 50 57.2	16 23.9	68.55	16 16.00
	31	Do	13 28.07	8.95	20 52 22.45	4 5.50	17 34 33.3	16 42.6	68.43	16 15.86
Febr.	1	Fr	13 37.02	8.15	20 56 27.95	4 4.70	17 17 50.7	17 1.0	68.32	16 15.71
	2	Sa	13 45.17	7.34	21 0 32.65	4 3.91	17 0 49.7	17 19.0	68.20	16 15.56
	3	St	13 52.51	6.55	21 4 36.56	4 3.10	16 43 30.7	17 36.6	68.08	16 15.40
	4	Mo	13 59.06	5.75	21 8 39.66	4 2.30	16 25 54.1	17 53.7	67.97	16 15.24
	5	Di	+14 4.81	4.94	21 12 41.96	4 1.50	−16 8 0.4	18 10.4	67.85	16 15.08
	6	Mi	14 9.75	4.14	21 16 43.46	4 0.70	15 49 50.0	18 26.8	67.74	16 14.92
	7	Do	14 13.89	3.35	21 20 44.16	3 59.90	15 31 23.2	18 42.8	67.63	16 14.75
	8	Fr	14 17.24	2.56	21 24 44.06	3 59.12	15 12 40.4	18 58.3	67.51	16 14.58
	9	Sa	14 19.80	1.77	21 28 43.18	3 58.33	14 53 42.1	19 13.3	67.40	16 14.40
	10	St	+14 21.57		21 32 41.51		−14 34 28.8		67.29	16 14.22

Tag	Julian. Zeit	Sternzeit	0h Welt-Zeit, Mittleres Äquinoktium 1929.0 Länge		Breite	log R		Aufgang in +50° Breite 0h Länge	Untergang in +50° Breite 0h Länge
1929	2425	h m s	° ′ ″	′ ″	″			h m	h m
Jan. 0	611.5	6 36 41.08	279 5 25.1	61 8.6	+0.75	9.992 6729	20	7 59	16 8
1	612.5	6 40 37.64	280 6 33.7	61 8.9	+0.72	9.992 6709	4	7 59	16 8
2	613.5	6 44 34.20	281 7 42.6	61 9.3	+0.67	9.992 6713	27	7 59	16 10
3	614.5	6 48 30.76	282 8 51.9	61 9.5	+0.59	9.992 6740	49	7 59	16 11
4	615.5	6 52 27.32	283 10 1.4	61 9.8	+0.49	9.992 6789	71	7 58	16 12
5	616.5	6 56 23.88	284 11 11.2	61 9.9	+0.37	9.992 6860	91	7 58	16 13
6	617.5	7 0 20.44	285 12 21.1	61 10.0	+0.25	9.992 6951	111	7 58	16 14
7	618.5	7 4 16.99	286 13 31.1	61 10.0	+0.13	9.992 7062	129	7 58	16 15
8	619.5	7 8 13.55	287 14 41.1	61 9.9	+0.01	9.992 7191	147	7 57	16 16
9	620.5	7 12 10.11	288 15 51.0	61 9.7	−0.12	9.992 7338	164	7 57	16 18
10	621.5	7 16 6.67	289 17 0.7	61 9.5	−0.23	9.992 7502	182	7 56	16 19
11	622.5	7 20 3.23	290 18 10.2	61 9.3	−0.32	9.992 7684	198	7 56	16 20
12	623.5	7 23 59.79	291 19 19.5	61 8.9	−0.40	9.992 7882	216	7 55	16 22
13	624.5	7 27 56.34	292 20 28.4	61 8.3	−0.45	9.992 8098	232	7 55	16 23
14	625.5	7 31 52.90	293 21 36.7	61 7.7	−0.46	9.992 8330	249	7 54	16 25
15	626.5	7 35 49.46	294 22 44.4	61 7.0	−0.45	9.992 8579	267	7 53	16 26
16	627.5	7 39 46.02	295 23 51.4	61 6.3	−0.40	9.992 8846	286	7 53	16 28
17	628.5	7 43 42.57	296 24 57.7	61 5.5	−0.33	9.992 9132	305	7 52	16 29
18	629.5	7 47 39.13	297 26 3.2	61 4.5	−0.24	9.992 9437	326	7 51	16 31
19	630.5	7 51 35.69	298 27 7.7	61 3.6	−0.13	9.992 9763	348	7 50	16 32
20	631.5	7 55 32.25	299 28 11.3	61 2.8	−0.01	9.993 0111	372	7 49	16 34
21	632.5	7 59 28.80	300 29 14.1	61 1.7	+0.12	9.993 0483	397	7 48	16 35
22	633.5	8 3 25.36	301 30 15.8	61 0.7	+0.25	9.993 0880	422	7 47	16 37
23	634.5	8 7 21.92	302 31 16.5	60 59.8	+0.38	9.993 1302	449	7 46	16 38
24	635.5	8 11 18.48	303 32 16.3	60 58.9	+0.48	9.993 1751	477	7 45	16 40
25	636.5	8 15 15.03	304 33 15.2	60 58.0	+0.55	9.993 2228	504	7 44	16 42
26	637.5	8 19 11.59	305 34 13.2	60 57.4	+0.59	9.993 2732	531	7 43	16 43
27	638.5	8 23 8.15	306 35 10.6	60 56.4	+0.60	9.993 3263	558	7 41	16 45
28	639.5	8 27 4.70	307 36 7.0	60 55.7	+0.60	9.993 3821	583	7 40	16 47
29	640.5	8 31 1.26	308 37 2.7	60 55.0	+0.55	9.993 4404	607	7 39	16 48
30	641.5	8 34 57.82	309 37 57.7	60 54.2	+0.48	9.993 5011	629	7 37	16 50
31	642.5	8 38 54.37	310 38 51.9	60 53.5	+0.39	9.993 5640	651	7 36	16 52
Febr. 1	643.5	8 42 50.93	311 39 45.4	60 52.7	+0.27	9.993 6291	671	7 35	16 53
2	644.5	8 46 47.49	312 40 38.1	60 51.9	+0.15	9.993 6962	690	7 33	16 55
3	645.5	8 50 44.04	313 41 30.0	60 50.9	+0.03	9.993 7652	707	7 32	16 57
4	646.5	8 54 40.60	314 42 20.9	60 50.1	−0.10	9.993 8359	723	7 30	16 59
5	647.5	8 58 37.16	315 43 11.0	60 49.0	−0.23	9.993 9082	738	7 29	17 0
6	648.5	9 2 33.71	316 44 0.0	60 48.0	−0.33	9.993 9820	752	7 27	17 2
7	649.5	9 6 30.27	317 44 48.0	60 46.9	−0.42	9.994 0572	765	7 26	17 4
8	650.5	9 10 26.82	318 45 34.9	60 45.8	−0.50	9.994 1337	779	7 24	17 5
9	651.5	9 14 23.38	319 46 20.7	60 44.5	−0.55	9.994 2116	791	7 22	17 7
10	652.5	9 18 19.94	320 47 5.2		−0.57	9.994 2907		7 21	17 9

Sonne 1929

Tag	Wochentag	0h Welt-Zeit: Zeitgleichung Mittlere Zeit *minus* Wahre Zeit (m s)	(s)	Scheinbare Rektaszension (h m s)	(m s)	Scheinbare Deklination (° ′ ″)	(′ ″)	Halbe Durchgangs-Dauer St.-Zt. (s)	Halbmesser (′ ″)
1929									
Febr. 10	St	+14 21.57	0.99	21 32 41.51	3 57.54	−14 34 28.8	19 28.0	67.29	16 14.22
11	Mo	14 22.56	0.21	21 36 39.05	3 56.76	14 15 0.8	19 42.1	67.18	16 14.04
12	Di	14 22.77	0.57	21 40 35.81	3 55.99	13 55 18.7	19 55.9	67.07	16 13.86
13	Mi	14 22.20	1.34	21 44 31.80	3 55.21	13 35 22.8	20 9.2	66.96	16 13.68
14	Do	14 20.86	2.10	21 48 27.01	3 54.45	13 15 13.6	20 22.1	66.85	16 13.49
15	Fr	14 18.76	2.86	21 52 21.46	3 53.70	12 54 51.5	20 34.6	66.75	16 13.30
16	Sa	+14 15.90	3.60	21 56 15.16	3 52.96	−12 34 16.9	20 46.6	66.64	16 13.11
17	St	14 12.30	4.32	22 0 8.12	3 52.24	12 13 30.3	20 58.1	66.54	16 12.91
18	Mo	14 7.98	5.04	22 4 0.36	3 51.51	11 52 32.2	21 9.3	66.44	16 12.71
19	Di	14 2.94	5.75	22 7 51.87	3 50.81	11 31 22.9	21 20.0	66.34	16 12.51
20	Mi	13 57.19	6.43	22 11 42.68	3 50.12	11 10 2.9	21 30.4	66.24	16 12.30
21	Do	13 50.76	7.09	22 15 32.80	3 49.47	10 48 32.5	21 40.3	66.15	16 12.09
22	Fr	+13 43.67	7.73	22 19 22.27	3 48.82	−10 26 52.2	21 49.9	66.06	16 11.88
23	Sa	13 35.94	8.36	22 23 11.09	3 48.19	10 5 2.3	21 59.0	65.97	16 11.66
24	St	13 27.58	8.97	22 26 59.28	3 47.58	9 43 3.3	22 7.8	65.88	16 11.43
25	Mo	13 18.61	9.55	22 30 46.86	3 47.00	9 20 55.5	22 16.2	65.79	16 11.20
26	Di	13 9.06	10.12	22 34 33.86	3 46.44	8 58 39.3	22 24.3	65.71	16 10.97
27	Mi	12 58.94	10.66	22 38 20.30	3 45.90	8 36 15.0	22 31.9	65.62	16 10.74
28	Do	+12 48.28	11.19	22 42 6.20	3 45.37	− 8 13 43.1	22 39.1	65.54	16 10.50
März 1	Fr	12 37.09	11.69	22 45 51.57	3 44.86	7 51 4.0	22 46.1	65.46	16 10.25
2	Sa	12 25.40	12.18	22 49 36.43	3 44.37	7 28 17.9	22 52.6	65.39	16 10.01
3	St	12 13.22	12.64	22 53 20.80	3 43.90	7 5 25.3	22 58.7	65.32	16 9.76
4	Mo	12 0.58	13.10	22 57 4.70	3 43.46	6 42 26.6	23 4.4	65.25	16 9.51
5	Di	11 47.48	13.53	23 0 48.16	3 43.03	6 19 22.2	23 9.8	65.18	16 9.25
6	Mi	+11 33.95	13.95	23 4 31.19	3 42.61	− 5 56 12.4	23 14.8	65.11	16 9.00
7	Do	11 20.00	14.34	23 8 13.80	3 42.21	5 32 57.6	23 19.3	65.05	16 8.74
8	Fr	11 5.66	14.72	23 11 56.01	3 41.83	5 9 38.3	23 23.6	64.99	16 8.48
9	Sa	10 50.94	15.08	23 15 37.84	3 41.47	4 46 14.7	23 27.3	64.94	16 8.22
10	St	10 35.86	15.43	23 19 19.31	3 41.13	4 22 47.4	23 30.6	64.88	16 7.96
11	Mo	10 20.43	15.75	23 23 0.44	3 40.80	3 59 16.8	23 33.7	64.83	16 7.70
12	Di	+10 4.68	16.06	23 26 41.24	3 40.49	− 3 35 43.1	23 36.2	64.78	16 7.44
13	Mi	9 48.62	16.37	23 30 21.73	3 40.19	3 12 6.9	23 38.3	64.74	16 7.18
14	Do	9 32.25	16.65	23 34 1.92	3 39.90	2 48 28.6	23 40.1	64.70	16 6.92
15	Fr	9 15.60	16.91	23 37 41.82	3 39.65	2 24 48.5	23 41.5	64.66	16 6.66
16	Sa	8 58.69	17.15	23 41 21.47	3 39.40	2 1 7.0	23 42.4	64.63	16 6.40
17	St	8 41.54	17.38	23 45 0.87	3 39.17	1 37 24.6	23 42.9	64.60	16 6.14
18	Mo	+ 8 24.16	17.58	23 48 40.04	3 38.97	− 1 13 41.7	23 43.2	64.57	16 5.87
19	Di	8 6.58	17.77	23 52 19.01	3 38.78	0 49 58.5	23 43.0	64.54	16 5.61
20	Mi	7 48.81	17.93	23 55 57.79	3 38.62	0 26 15.5	23 42.5	64.52	16 5.34
21	Do	7 30.88	18.08	23 59 36.41	3 38.48	− 0 2 33.0	23 41.5	64.50	16 5.08
22	Fr	7 12.80	18.19	0 3 14.89	3 38.37	+ 0 21 8.5	23 40.3	64.48	16 4.81
23	Sa	+ 6 54.61		0 6 53.26		+ 0 44 48.8		64.47	16 4.54

Tag	Julian. Zeit	Sternzeit	Länge (Mittleres Äquinoktium 1929.0)		Breite (Mittleres Äquinoktium 1929.0)	log R		Aufgang (in +50° Breite, 0ʰ Länge)	Untergang (in +50° Breite, 0ʰ Länge)
		0ʰ Welt-Zeit							
1929	2425	h m s	° ′ ″	′ ″	″			h m	h m
Febr. 10	652.5	9 18 19.94	320 47 5.2	60 43.0	−0.57	9.994 2907	801	7 21	17 9
11	653.5	9 22 16.49	321 47 48.2	60 41.7	−0.56	9.994 3708	812	7 19	17 11
12	654.5	9 26 13.05	322 48 29.9	60 40.1	−0.53	9.994 4520	824	7 17	17 12
13	655.5	9 30 9.60	323 49 10.0	60 38.6	−0.46	9.994 5344	835	7 16	17 14
14	656.5	9 34 6.16	324 49 48.6	60 36.9	−0.37	9.994 6179	847	7 14	17 16
15	657.5	9 38 2.71	325 50 25.5	60 35.0	−0.27	9.994 7026	861	7 12	17 18
16	658.5	9 41 59.27	326 51 0.5	60 33.3	−0.15	9.994 7887	875	7 10	17 19
17	659.5	9 45 55.82	327 51 33.8	60 31.4	−0.02	9.994 8762	890	7 8	17 21
18	660.5	9 49 52.38	328 52 5.2	60 29.6	+0.12	9.994 9652	906	7 6	17 23
19	661.5	9 53 48.93	329 52 34.8	60 27.7	+0.24	9.995 0558	924	7 4	17 24
20	662.5	9 57 45.49	330 53 2.5	60 25.9	+0.34	9.995 1482	942	7 3	17 26
21	663.5	10 1 42.04	331 53 28.4	60 24.1	+0.41	9.995 2424	962	7 1	17 28
22	664.5	10 5 38.59	332 53 52.5	60 22.3	+0.45	9.995 3386	982	6 59	17 30
23	665.5	10 9 35.15	333 54 14.8	60 20.6	+0.48	9.995 4368	1001	6 57	17 31
24	666.5	10 13 31.70	334 54 35.4	60 18.8	+0.47	9.995 5369	1021	6 55	17 33
25	667.5	10 17 28.26	335 54 54.2	60 17.3	+0.42	9.995 6390	1039	6 53	17 35
26	668.5	10 21 24.81	336 55 11.5	60 15.7	+0.35	9.995 7429	1057	6 51	17 36
27	669.5	10 25 21.37	337 55 27.2	60 14.1	+0.26	9.995 8486	1074	6 49	17 38
28	670.5	10 29 17.92	338 55 41.3	60 12.6	+0.15	9.995 9560	1088	6 47	17 40
März 1	671.5	10 33 14.47	339 55 53.9	60 11.1	+0.03	9.996 0648	1103	6 45	17 41
2	672.5	10 37 11.03	340 56 5.0	60 9.5	−0.10	9.996 1751	1115	6 43	17 43
3	673.5	10 41 7.58	341 56 14.5	60 7.9	−0.23	9.996 2866	1126	6 41	17 44
4	674.5	10 45 4.13	342 56 22.4	60 6.5	−0.34	9.996 3992	1136	6 39	17 46
5	675.5	10 49 0.69	343 56 28.9	60 4.8	−0.45	9.996 5128	1145	6 37	17 48
6	676.5	10 52 57.24	344 56 33.7	60 3.1	−0.54	9.996 6273	1151	6 34	17 49
7	677.5	10 56 53.80	345 56 36.8	60 1.5	−0.62	9.996 7424	1157	6 32	17 51
8	678.5	11 0 50.35	346 56 38.3	59 59.7	−0.67	9.996 8581	1162	6 30	17 53
9	679.5	11 4 46.90	347 56 38.0	59 58.0	−0.68	9.996 9743	1166	6 28	17 54
10	680.5	11 8 43.46	348 56 36.0	59 56.2	−0.67	9.997 0909	1168	6 26	17 56
11	681.5	11 12 40.01	349 56 32.2	59 54.3	−0.64	9.997 2077	1169	6 24	17 58
12	682.5	11 16 36.56	350 56 26.5	59 52.3	−0.57	9.997 3246	1171	6 22	17 59
13	683.5	11 20 33.12	351 56 18.8	59 50.2	−0.49	9.997 4417	1172	6 20	18 1
14	684.5	11 24 29.67	352 56 9.0	59 48.1	−0.38	9.997 5589	1173	6 17	18 2
15	685.5	11 28 26.22	353 55 57.1	59 45.9	−0.26	9.997 6762	1175	6 15	18 4
16	686.5	11 32 22.78	354 55 43.0	59 43.6	−0.13	9.997 7937	1177	6 13	18 6
17	687.5	11 36 19.33	355 55 26.6	59 41.2	0.00	9.997 9114	1182	6 11	18 7
18	688.5	11 40 15.88	356 55 7.8	59 38.9	+0.11	9.998 0296	1187	6 9	18 9
19	689.5	11 44 12.44	357 54 46.7	59 36.7	+0.22	9.998 1483	1192	6 6	18 10
20	690.5	11 48 8.99	358 54 23.4	59 34.4	+0.31	9.998 2675	1198	6 4	18 12
21	691.5	11 52 5.54	359 53 57.8	59 32.1	+0.37	9.998 3873	1207	6 2	18 14
22	692.5	11 56 2.10	0 53 29.9	59 29.9	+0.39	9.998 5080	1216	6 0	18 15
23	693.5	11 59 58.65	1 52 59.8		+0.38	9.998 6296		5 58	18 17

Tag	Wochentag	0h Welt-Zeit: Zeitgleichung Mittlere Zeit *minus* Wahre Zeit		Scheinbare Rektaszension		Scheinbare Deklination		Halbe Durchgangs-Dauer St.-Zt.	Halbmesser
1929		m s	s	h m s	m s	° ′ ″	′ ″	s	′ ″
März 23	Sa	+6 54.61	18.28	0 6 53.26	3 38.27	+ 0 44 48.8	23 38.7	64.47	16 4.54
24	St	6 36.33	18.35	0 10 31.53	3 38.20	1 8 27.5	23 36.9	64.46	16 4.27
25	Mo	6 17.98	18.40	0 14 9.73	3 38.15	1 32 4.4	23 34.6	64.45	16 3.99
26	Di	5 59.58	18.42	0 17 47.88	3 38.14	1 55 39.0	23 32.1	64.44	16 3.72
27	Mi	5 41.16	18.42	0 21 26.02	3 38.14	2 19 11.1	23 29.1	64.44	16 3.44
28	Do	5 22.74	18.39	0 25 4.16	3 38.16	2 42 40.2	23 25.9	64.44	16 3.16
29	Fr	+5 4.35	18.34	0 28 42.32	3 38.21	+ 3 6 6.1	23 22.5	64.44	16 2.88
30	Sa	4 46.01	18.28	0 32 20.53	3 38.27	3 29 28.6	23 18.6	64.45	16 2.60
31	St	4 27.73	18.19	0 35 58.80	3 38.36	3 52 47.2	23 14.3	64.46	16 2.32
April 1	Mo	4 9.54	18.08	0 39 37.16	3 38.48	4 16 1.5	23 9.8	64.47	16 2.04
2	Di	3 51.46	17.94	0 43 15.64	3 38.61	4 39 11.3	23 4.9	64.49	16 1.75
3	Mi	3 33.52	17.80	0 46 54.25	3 38.75	5 2 16.2	22 59.6	64.51	16 1.47
4	Do	+3 15.72	17.64	0 50 33.00	3 38.92	+ 5 25 15.8	22 54.1	64.53	16 1.19
5	Fr	2 58.08	17.45	0 54 11.92	3 39.10	5 48 9.9	22 48.2	64.55	16 0.91
6	Sa	2 40.63	17.25	0 57 51.02	3 39.31	6 10 58.1	22 41.9	64.58	16 0.63
7	St	2 23.38	17.03	1 1 30.33	3 39.52	6 33 40.0	22 35.2	64.61	16 0.35
8	Mo	2 6.35	16.80	1 5 9.85	3 39.76	6 56 15.2	22 28.2	64.64	16 0.07
9	Di	1 49.55	16.55	1 8 49.61	3 40.00	7 18 43.4	22 20.9	64.68	15 59.79
10	Mi	+1 33.00	16.29	1 12 29.61	3 40.26	+ 7 41 4.3	22 13.1	64.72	15 59.52
11	Do	1 16.71	16.03	1 16 9.87	3 40.53	8 3 17.4	22 4.9	64.76	15 59.25
12	Fr	1 0.68	15.74	1 19 50.40	3 40.81	8 25 22.3	21 56.4	64.80	15 58.98
13	Sa	0 44.94	15.44	1 23 31.21	3 41.11	8 47 18.7	21 47.6	64.84	15 58.72
14	St	0 29.50	15.13	1 27 12.32	3 41.43	9 9 6.3	21 38.4	64.89	15 58.45
15	Mo	+0 14.37	14.81	1 30 53.75	3 41.74	9 30 44.7	21 28.8	64.94	15 58.19
16	Di	−0 0.44	14.47	1 34 35.49	3 42.08	+ 9 52 13.5	21 18.8	64.99	15 57.93
17	Mi	0 14.91	14.12	1 38 17.57	3 42.44	10 13 32.3	21 8.6	65.04	15 57.67
18	Do	0 29.03	13.75	1 42 0.01	3 42.81	10 34 40.9	20 58.1	65.09	15 57.41
19	Fr	0 42.78	13.36	1 45 42.82	3 43.19	10 55 39.0	20 47.1	65.15	15 57.15
20	Sa	0 56.14	12.96	1 49 26.01	3 43.60	11 16 26.1	20 35.8	65.21	15 56.90
21	St	1 9.10	12.54	1 53 9.61	3 44.01	11 37 1.9	20 24.4	65.27	15 56.64
22	Mo	−1 21.64	12.11	1 56 53.62	3 44.45	+11 57 26.3	20 12.6	65.34	15 56.39
23	Di	1 33.75	11.66	2 0 38.07	3 44.89	12 17 38.9	20 0.4	65.40	15 56.13
24	Mi	1 45.41	11.20	2 4 22.96	3 45.36	12 37 39.3	19 47.9	65.47	15 55.88
25	Do	1 56.61	10.71	2 8 8.32	3 45.84	12 57 27.2	19 35.2	65.54	15 55.62
26	Fr	2 7.32	10.22	2 11 54.16	3 46.33	13 17 2.4	19 22.2	65.61	15 55.37
27	Sa	2 17.54	9.71	2 15 40.49	3 46.84	13 36 24.6	19 8.9	65.68	15 55.12
28	St	−2 27.25	9.20	2 19 27.33	3 47.36	+13 55 33.5	18 55.2	65.75	15 54.87
29	Mo	2 36.45	8.67	2 23 14.69	3 47.89	14 14 28.7	18 41.2	65.83	15 54.62
30	Di	2 45.12	8.13	2 27 2.58	3 48.43	14 33 9.9	18 27.0	65.90	15 54.37
Mai 1	Mi	2 53.25	7.59	2 30 51.01	3 48.97	14 51 36.9	18 12.3	65.98	15 54.12
2	Do	3 0.84	7.02	2 34 39.98	3 49.53	15 9 49.2	17 57.4	66.05	15 53.88
3	Fr	−3 7.86		2 38 29.51		+15 27 46.6		66.13	15 53.64

Tag	Julian. Zeit	Sternzeit	Länge		Breite	log R		Aufgang	Untergang
	0h Welt-Zeit		Mittleres Äquinoktium 1929.0					in {+50° Breite, 0h Länge	
1929	2425	h m s	° ′ ″	′ ″	″			h m	h m
März 23	693.5	11 59 58.65	1 52 59.8	59 27.7	+0.38	9.998 6296	1224	5 58	18 17
24	694.5	12 3 55.20	2 52 27.5	59 25.6	+0.32	9.998 7520	1233	5 56	18 18
25	695.5	12 7 51.76	3 51 53.1	59 23.5	+0.25	9.998 8753	1241	5 53	18 20
26	696.5	12 11 48.31	4 51 16.6	59 21.5	+0.16	9.998 9994	1250	5 51	18 22
27	697.5	12 15 44.86	5 50 38.1	59 19.6	+0.05	9.999 1244	1257	5 49	18 23
28	698.5	12 19 41.42	6 49 57.7	59 17.7	−0.07	9.999 2501	1263	5 47	18 25
29	699.5	12 23 37.97	7 49 15.4	59 15.8	−0.20	9.999 3764	1269	5 45	18 26
30	700.5	12 27 34.52	8 48 31.2	59 14.0	−0.33	9.999 5033	1272	5 42	18 28
31	701.5	12 31 31.08	9 47 45.2	59 12.2	−0.45	9.999 6305	1274	5 40	18 29
April 1	702.5	12 35 27.63	10 46 57.4	59 10.4	−0.56	9.999 7579	1277	5 38	18 31
2	703.5	12 39 24.18	11 46 7.8	59 8.7	−0.67	9.999 8856	1276	5 36	18 32
3	704.5	12 43 20.74	12 45 16.5	59 6.8	−0.75	0.000 0132	1274	5 34	18 34
4	705.5	12 47 17.29	13 44 23.3	59 5.1	−0.80	0.000 1406	1272	5 32	18 36
5	706.5	12 51 13.84	14 43 28.4	59 3.2	−0.83	0.000 2678	1268	5 30	18 37
6	707.5	12 55 10.40	15 42 31.6	59 1.4	−0.84	0.000 3946	1262	5 27	18 39
7	708.5	12 59 6.95	16 41 33.0	58 59.6	−0.81	0.000 5208	1255	5 25	18 40
8	709.5	13 3 3.51	17 40 32.6	58 57.8	−0.76	0.000 6463	1246	5 23	18 42
9	710.5	13 7 0.06	18 39 30.4	58 55.8	−0.68	0.000 7709	1237	5 21	18 43
10	711.5	13 10 56.61	19 38 26.2	58 53.8	−0.58	0.000 8946	1227	5 19	18 45
11	712.5	13 14 53.17	20 37 20.0	58 51.6	−0.46	0.001 0173	1217	5 17	18 46
12	713.5	13 18 49.72	21 36 11.6	58 49.4	−0.32	0.001 1390	1207	5 15	18 48
13	714.5	13 22 46.28	22 35 1.0	58 47.3	−0.18	0.001 2597	1198	5 13	18 50
14	715.5	13 26 42.83	23 33 48.3	58 45.1	−0.07	0.001 3795	1190	5 11	18 51
15	716.5	13 30 39.38	24 32 33.4	58 42.8	+0.04	0.001 4985	1182	5 8	18 53
16	717.5	13 34 35.94	25 31 16.2	58 40.5	+0.13	0.001 6167	1176	5 6	18 54
17	718.5	13 38 32.49	26 29 56.7	58 38.2	+0.19	0.001 7343	1171	5 4	18 56
18	719.5	13 42 29.05	27 28 34.9	58 36.0	+0.21	0.001 8514	1167	5 2	18 57
19	720.5	13 46 25.60	28 27 10.9	58 33.9	+0.21	0.001 9681	1163	5 0	18 59
20	721.5	13 50 22.15	29 25 44.8	58 31.8	+0.18	0.002 0844	1161	4 58	19 0
21	722.5	13 54 18.71	30 24 16.6	58 29.6	+0.11	0.002 2005	1159	4 56	19 2
22	723.5	13 58 15.26	31 22 46.2	58 27.6	+0.01	0.002 3164	1156	4 54	19 4
23	724.5	14 2 11.82	32 21 13.8	58 25.8	−0.10	0.002 4320	1155	4 52	19 5
24	725.5	14 6 8.37	33 19 39.6	58 23.9	−0.22	0.002 5475	1152	4 50	19 7
25	726.5	14 10 4.93	34 18 3.5	58 22.1	−0.35	0.002 6627	1149	4 49	19 8
26	727.5	14 14 1.48	35 16 25.6	58 20.4	−0.50	0.002 7776	1145	4 47	19 10
27	728.5	14 17 58.04	36 14 46.0	58 18.7	−0.64	0.002 8921	1140	4 45	19 11
28	729.5	14 21 54.59	37 13 4.7	58 17.0	−0.76	0.003 0061	1135	4 43	19 13
29	730.5	14 25 51.15	38 11 21.7	58 15.5	−0.87	0.003 1196	1128	4 41	19 14
30	731.5	14 29 47.70	39 9 37.2	58 13.9	−0.95	0.003 2324	1120	4 39	19 16
Mai 1	732.5	14 33 44.26	40 7 51.1	58 12.5	−1.02	0.003 3444	1111	4 38	19 18
2	733.5	14 37 40.82	41 6 3.6	58 11.1	−1.06	0.003 4555	1101	4 36	19 19
3	734.5	14 41 37.37	42 4 14.7		−1.08	0.003 5656		4 34	19 21

Tag	Wochentag	0ʰ Welt-Zeit							
		Zeitgleichung Mittlere Zeit *minus* Wahre Zeit		Scheinbare Rektaszension		Scheinbare Deklination		Halbe Durchgangs-Dauer St.-Zt.	Halbmesser
1929		m s	s	h m s	m s	° ' "	' "	s	' "
Mai 3	Fr	−3 7.86	6.45	2 38 29.51	3 50.10	+15 27 46.6	17 42.3	66.13	15 53.64
4	Sa	3 14.31	5.89	2 42 19.61	3 50.66	15 45 28.9	17 26.7	66.21	15 53.40
5	St	3 20.20	5.32	2 46 10.27	3 51.24	16 2 55.6	17 10.8	66.29	15 53.16
6	Mo	3 25.52	4.74	2 50 1.51	3 51.82	16 20 6.4	16 54.7	66.37	15 52.93
7	Di	3 30.26	4.16	2 53 53.33	3 52.40	16 37 1.1	16 38.2	66.46	15 52.70
8	Mi	3 34.42	3.59	2 57 45.73	3 52.96	16 53 39.3	16 21.3	66.54	15 52.48
9	Do	−3 38.01	3.02	3 1 38.69	3 53.54	+17 10 0.6	16 4.1	66.62	15 52.26
10	Fr	3 41.03	2.44	3 5 32.23	3 54.12	17 26 4.7	15 46.6	66.70	15 52.04
11	Sa	3 43.47	1.88	3 9 26.35	3 54.68	17 41 51.3	15 28.8	66.78	15 51.83
12	St	3 45.35	1.31	3 13 21.03	3 55.24	17 57 20.1	15 10.7	66.86	15 51.62
13	Mo	3 46.66	0.76	3 17 16.27	3 55.79	18 12 30.8	14 52.2	66.95	15 51.41
14	Di	3 47.42	0.21	3 21 12.06	3 56.35	18 27 23.0	14 33.5	67.03	15 51.21
15	Mi	−3 47.63	0.35	3 25 8.41	3 56.91	+18 41 56.5	14 14.4	67.11	15 51.02
16	Do	3 47.28	0.90	3 29 5.32	3 57.45	18 56 10.9	13 55.1	67.19	15 50.82
17	Fr	3 46.38	1.44	3 33 2.77	3 58.00	19 10 6.0	13 35.7	67.27	15 50.63
18	Sa	3 44.94	1.98	3 37 0.77	3 58.54	19 23 41.7	13 15.8	67.35	15 50.45
19	St	3 42.96	2.52	3 40 59.31	3 59.08	19 36 57.5	12 55.7	67.43	15 50.26
20	Mo	3 40.44	3.05	3 44 58.39	3 59.61	19 49 53.2	12 35.4	67.51	15 50.08
21	Di	−3 37.39	3.59	3 48 58.00	4 0.15	+20 2 28.6	12 15.0	67.59	15 49.90
22	Mi	3 33.80	4.12	3 52 58.15	4 0.67	20 14 43.6	11 54.2	67.66	15 49.72
23	Do	3 29.68	4.64	3 56 58.82	4 1.20	20 26 37.8	11 33.2	67.74	15 49.55
24	Fr	3 25.04	5.15	4 1 0.02	4 1.71	20 38 11.0	11 11.9	67.81	15 49.38
25	Sa	3 19.89	5.66	4 5 1.73	4 2.22	20 49 22.9	10 50.5	67.88	15 49.21
26	St	3 14.23	6.17	4 9 3.95	4 2.72	21 0 13.4	10 28.9	67.95	15 49.04
27	Mo	−3 8.06	6.66	4 13 6.67	4 3.22	+21 10 42.3	10 7.1	68.02	15 48.87
28	Di	3 1.40	7.15	4 17 9.89	4 3.70	21 20 49.4	9 45.0	68.09	15 48.71
29	Mi	2 54.25	7.61	4 21 13.59	4 4.17	21 30 34.4	9 22.7	68.16	15 48.55
30	Do	2 46.64	8.07	4 25 17.76	4 4.63	21 39 57.1	9 0.3	68.22	15 48.39
31	Fr	2 38.57	8.52	4 29 22.39	4 5.08	21 48 57.4	8 37.7	68.28	15 48.24
Juni 1	Sa	2 30.05	8.96	4 33 27.47	4 5.51	21 57 35.1	8 14.7	68.34	15 48.09
2	St	−2 21.09	9.37	4 37 32.98	4 5.93	+22 5 49.8	7 51.7	68.40	15 47.95
3	Mo	2 11.72	9.76	4 41 38.91	4 6.33	22 13 41.5	7 28.5	68.45	15 47.81
4	Di	2 1.96	10.15	4 45 45.24	4 6.70	22 21 10.0	7 5.2	68.50	15 47.67
5	Mi	1 51.81	10.50	4 49 51.94	4 7.06	22 28 15.2	6 41.6	68.55	15 47.54
6	Do	1 41.31	10.84	4 53 59.00	4 7.40	22 34 56.8	6 17.8	68.60	15 47.41
7	Fr	1 30.47	11.15	4 58 6.40	4 7.70	22 41 14.6	5 54.0	68.65	15 47.29
8	Sa	−1 19.32	11.43	5 2 14.10	4 7.99	+22 47 8.6	5 29.9	68.69	15 47.18
9	St	1 7.89	11.69	5 6 22.09	4 8.24	22 52 38.5	5 5.8	68.72	15 47.07
10	Mo	0 56.20	11.92	5 10 30.33	4 8.47	22 57 44.3	4 41.5	68.75	15 46.96
11	Di	0 44.28	12.12	5 14 38.80	4 8.69	23 2 25.8	4 17.1	68.78	15 46.86
12	Mi	0 32.16	12.30	5 18 47.49	4 8.87	23 6 42.9	3 52.6	68.81	15 46.77
13	Do	−0 19.86		5 22 56.36		+23 10 35.5		68.84	15 46.68

Tag	Julian. Zeit	Sternzeit	Länge (Mittleres Äquinoktium 1929.0)	Diff.	Breite	log R	Diff.	Aufgang	Untergang
			0ʰ Welt-Zeit					in +50° Breite, 0ʰ Länge	
1929	2425	h m s	° ′ ″	′ ″	″			h m	h m
Mai 3	734.5	14 41 37.37	42 4 14.7	58 9.5	−1.08	0.003 5656	1090	4 34	19 21
4	735.5	14 45 33.93	43 2 24.2	58 8.1	−1.05	0.003 6746	1075	4 32	19 22
5	736.5	14 49 30.48	44 0 32.3	58 6.7	−1.00	0.003 7821	1061	4 30	19 24
6	737.5	14 53 27.04	44 58 39.0	58 5.3	−0.94	0.003 8882	1045	4 29	19 25
7	738.5	14 57 23.59	45 56 44.3	58 3.8	−0.83	0.003 9927	1027	4 27	19 27
8	739.5	15 1 20.15	46 54 48.1	58 2.3	−0.71	0.004 0954	1008	4 25	19 28
9	740.5	15 5 16.71	47 52 50.4	58 0.6	−0.57	0.004 1962	989	4 24	19 30
10	741.5	15 9 13.26	48 50 51.0	57 59.0	−0.44	0.004 2951	970	4 22	19 31
11	742.5	15 13 9.82	49 48 50.0	57 57.3	−0.31	0.004 3921	951	4 21	19 33
12	743.5	15 17 6.37	50 46 47.3	57 55.6	−0.19	0.004 4872	931	4 19	19 34
13	744.5	15 21 2.93	51 44 42.9	57 53.9	−0.10	0.004 5803	914	4 18	19 36
14	745.5	15 24 59.49	52 42 36.8	57 52.1	−0.04	0.004 6717	897	4 16	19 37
15	746.5	15 28 56.04	53 40 28.9	57 50.2	+0.01	0.004 7614	882	4 15	19 38
16	747.5	15 32 52.60	54 38 19.1	57 48.5	+0.02	0.004 8496	869	4 13	19 40
17	748.5	15 36 49.16	55 36 7.6	57 46.8	−0.01	0.004 9365	855	4 12	19 41
18	749.5	15 40 45.71	56 33 54.4	57 45.2	−0.07	0.005 0220	843	4 11	19 42
19	750.5	15 44 42.27	57 31 39.6	57 43.6	−0.15	0.005 1063	831	4 10	19 44
20	751.5	15 48 38.83	58 29 23.2	57 42.1	−0.26	0.005 1894	821	4 8	19 45
21	752.5	15 52 35.39	59 27 5.3	57 40.6	−0.38	0.005 2715	810	4 7	19 46
22	753.5	15 56 31.94	60 24 45.9	57 39.2	−0.53	0.005 3525	800	4 6	19 48
23	754.5	16 0 28.50	61 22 25.1	57 38.0	−0.67	0.005 4325	789	4 5	19 49
24	755.5	16 4 25.06	62 20 3.1	57 36.7	−0.79	0.005 5114	778	4 4	19 50
25	756.5	16 8 21.61	63 17 39.8	57 35.5	−0.91	0.005 5892	767	4 2	19 52
26	757.5	16 12 18.17	64 15 15.3	57 34.5	−1.03	0.005 6659	756	4 1	19 53
27	758.5	16 16 14.73	65 12 49.8	57 33.6	−1.12	0.005 7415	743	4 0	19 54
28	759.5	16 20 11.29	66 10 23.4	57 32.5	−1.19	0.005 8158	729	4 0	19 55
29	760.5	16 24 7.84	67 7 55.9	57 31.6	−1.24	0.005 8887	715	3 59	19 56
30	761.5	16 28 4.40	68 5 27.5	57 30.8	−1.26	0.005 9602	700	3 58	19 57
31	762.5	16 32 0.96	69 2 58.3	57 30.1	−1.25	0.006 0302	683	3 57	19 58
Juni 1	763.5	16 35 57.52	70 0 28.4	57 29.3	−1.20	0.006 0985	665	3 56	20 0
2	764.5	16 39 54.08	70 57 57.7	57 28.6	−1.13	0.006 1650	646	3 55	20 1
3	765.5	16 43 50.63	71 55 26.3	57 27.9	−1.04	0.006 2296	626	3 55	20 2
4	766.5	16 47 47.19	72 52 54.2	57 27.2	−0.93	0.006 2922	603	3 54	20 2
5	767.5	16 51 43.75	73 50 21.4	57 26.5	−0.80	0.006 3525	579	3 53	20 3
6	768.5	16 55 40.31	74 47 47.9	57 25.7	−0.66	0.006 4104	555	3 53	20 4
7	769.5	16 59 36.87	75 45 13.6	57 24.8	−0.52	0.006 4659	530	3 52	20 5
8	770.5	17 3 33.42	76 42 38.4	57 23.9	−0.40	0.006 5189	504	3 52	20 6
9	771.5	17 7 29.98	77 40 2.3	57 23.1	−0.29	0.006 5693	478	3 52	20 7
10	772.5	17 11 26.54	78 37 25.4	57 22.3	−0.21	0.006 6171	454	3 51	20 7
11	773.5	17 15 23.10	79 34 47.7	57 21.2	−0.16	0.006 6625	431	3 51	20 8
12	774.5	17 19 19.66	80 32 8.9	57 20.2	−0.14	0.006 7056	409	3 50	20 9
13	775.5	17 23 16.22	81 29 29.1		−0.15	0.006 7465		3 50	20 9

Tag	Wochentag	0h Welt-Zeit: Zeitgleichung (Mittlere Zeit *minus* Wahre Zeit)		Scheinbare Rektaszension		Scheinbare Deklination		Halbe Durchgangs-Dauer St.-Zt.	Halbmesser
1929		m s	s	h m s	m s	° ' "	' "	s	' "
Juni 13	Do	−0 19.86	12.46	5 22 56.36	4 9.02	+23 10 35.5	3 28.1	68.84	15 46.68
14	Fr	−0 7.40	12.60	5 27 5.38	4 9.15	23 14 3.6	3 3.5	68.87	15 46.59
15	Sa	+0 5.20	12.71	5 31 14.53	4 9.27	23 17 7.1	2 38.8	68.89	15 46.51
16	St	0 17.91	12.80	5 35 23.80	4 9.36	23 19 45.9	2 14.1	68.90	15 46.44
17	Mo	0 30.71	12.88	5 39 33.16	4 9.43	23 22 0.0	1 49.4	68.92	15 46.37
18	Di	0 43.59	12.93	5 43 42.59	4 9.49	23 23 49.4	1 24.5	68.93	15 46.30
19	Mi	+0 56.52	12.95	5 47 52.08	4 9.51	+23 25 13.9	0 59.8	68.94	15 46.23
20	Do	1 9.47	12.96	5 52 1.59	4 9.52	23 26 13.7	0 35.1	68.94	15 46.17
21	Fr	1 22.43	12.95	5 56 11.11	4 9.51	23 26 48.8	0 10.3	68.94	15 46.11
22	Sa	1 35.38	12.92	6 0 20.62	4 9.48	23 26 59.1	0 14.6	68.94	15 46.06
23	St	1 48.30	12.87	6 4 30.10	4 9.42	23 26 44.5	0 39.3	68.93	15 46.00
24	Mo	2 1.17	12.80	6 8 39.52	4 9.36	23 26 5.2	1 4.0	68.92	15 45.95
25	Di	+2 13.97	12.70	6 12 48.88	4 9.27	+23 25 1.2	1 28.7	68.91	15 45.91
26	Mi	2 26.67	12.59	6 16 58.15	4 9.15	23 23 32.5	1 53.4	68.90	15 45.87
27	Do	2 39.26	12.46	6 21 7.30	4 9.02	23 21 39.1	2 17.9	68.88	15 45.83
28	Fr	2 51.72	12.31	6 25 16.32	4 8.86	23 19 21.2	2 42.5	68.86	15 45.79
29	Sa	3 4.03	12.13	6 29 25.18	4 8.69	23 16 38.7	3 7.0	68.83	15 45.76
30	St	3 16.16	11.94	6 33 33.87	4 8.50	23 13 31.7	3 31.4	68.81	15 45.73
Juli 1	Mo	+3 28.10	11.72	6 37 42.37	4 8.28	+23 10 0.3	3 55.8	68.77	15 45.71
2	Di	3 39.82	11.49	6 41 50.65	4 8.04	23 6 4.5	4 20.0	68.73	15 45.69
3	Mi	3 51.31	11.22	6 45 58.69	4 7.78	23 1 44.5	4 44.2	68.69	15 45.68
4	Do	4 2.53	10.93	6 50 6.47	4 7.49	22 57 0.3	5 8.2	68.65	15 45.67
5	Fr	4 13.46	10.62	6 54 13.96	4 7.18	22 51 52.1	5 32.1	68.61	15 45.67
6	Sa	4 24.08	10.29	6 58 21.14	4 6.84	22 46 20.0	5 55.9	68.57	15 45.68
7	St	+4 34.37	9.92	7 2 27.98	4 6.48	+22 40 24.1	6 19.6	68.52	15 45.69
8	Mo	4 44.29	9.54	7 6 34.46	4 6.10	22 34 4.5	6 43.0	68.46	15 45.70
9	Di	4 53.83	9.13	7 10 40.56	4 5.69	22 27 21.5	7 6.4	68.41	15 45.72
10	Mi	5 2.96	8.69	7 14 46.25	4 5.25	22 20 15.1	7 29.5	68.35	15 45.75
11	Do	5 11.65	8.25	7 18 51.50	4 4.80	22 12 45.6	7 52.4	68.29	15 45.78
12	Fr	5 19.90	7.78	7 22 56.30	4 4.33	22 4 53.2	8 15.2	68.23	15 45.82
13	Sa	+5 27.68	7.29	7 27 0.63	4 3.85	+21 56 38.0	8 37.7	68.17	15 45.86
14	St	5 34.97	6.79	7 31 4.48	4 3.36	21 48 0.3	9 0.1	68.11	15 45.91
15	Mo	5 41.76	6.29	7 35 7.84	4 2.84	21 39 0.2	9 22.2	68.04	15 45.96
16	Di	5 48.05	5.77	7 39 10.68	4 2.32	21 29 38.0	9 44.1	67.97	15 46.02
17	Mi	5 53.82	5.23	7 43 13.00	4 1.80	21 19 53.9	10 5.8	67.89	15 46.07
18	Do	5 59.05	4.70	7 47 14.80	4 1.26	21 9 48.1	10 27.2	67.82	15 46.13
19	Fr	+6 3.75	4.15	7 51 16.06	4 0.70	+20 59 20.9	10 48.5	67.75	15 46.20
20	Sa	6 7.90	3.59	7 55 16.76	4 0.15	20 48 32.4	11 9.5	67.67	15 46.27
21	St	6 11.49	3.03	7 59 16.91	3 59.59	20 37 22.9	11 30.2	67.59	15 46.35
22	Mo	6 14.52	2.47	8 3 16.50	3 59.03	20 25 52.7	11 50.7	67.51	15 46.42
23	Di	6 16.99	1.90	8 7 15.53	3 58.46	20 14 2.0	12 11.1	67.43	15 46.50
24	Mi	+6 18.89		8 11 13.99		+20 1 50.9		67.35	15 46.58

Tag	Julian. Zeit	Sternzeit	0h Welt-Zeit Mittleres Äquinoktium 1929.0 Länge		Breite	log R		Aufgang in +50° Breite 0h Länge	Untergang in +50° Breite 0h Länge
1929	2425	h m s	° ′ ″	′ ″	″			h m	h m
Juni 13	775.5	17 23 16.22	81 29 29.1	57 19.2	−0.15	0.006 7465	387	3 50	20 9
14	776.5	17 27 12.77	82 26 48.3	57 18.2	−0.19	0.006 7852	368	3 50	20 10
15	777.5	17 31 9.33	83 24 6.5	57 17.4	−0.26	0.006 8220	349	3 50	20 10
16	778.5	17 35 5.89	84 21 23.9	57 16.6	−0.35	0.006 8569	332	3 50	20 11
17	779.5	17 39 2.45	85 18 40.5	57 15.8	−0.47	0.006 8901	316	3 50	20 11
18	780.5	17 42 59.01	86 15 56.3	57 15.0	−0.59	0.006 9217	300	3 50	20 12
19	781.5	17 46 55.57	87 13 11.3	57 14.5	−0.72	0.006 9517	284	3 50	20 12
20	782.5	17 50 52.12	88 10 25.8	57 13.9	−0.85	0.006 9801	270	3 50	20 12
21	783.5	17 54 48.68	89 7 39.7	57 13.4	−0.97	0.007 0071	254	3 50	20 13
22	784.5	17 58 45.24	90 4 53.1	57 12.9	−1.07	0.007 0325	240	3 50	20 13
23	785.5	18 2 41.80	91 2 6.0	57 12.7	−1.16	0.007 0565	224	3 51	20 13
24	786.5	18 6 38.36	91 59 18.7	57 12.4	−1.23	0.007 0789	210	3 51	20 13
25	787.5	18 10 34.92	92 56 31.1	57 12.3	−1.28	0.007 0999	194	3 51	20 13
26	788.5	18 14 31.47	93 53 43.4	57 12.2	−1.30	0.007 1193	178	3 52	20 13
27	789.5	18 18 28.03	94 50 55.6	57 12.1	−1.29	0.007 1371	160	3 52	20 13
28	790.5	18 22 24.59	95 48 7.7	57 12.2	−1.26	0.007 1531	143	3 53	20 13
29	791.5	18 26 21.15	96 45 19.9	57 12.3	−1.19	0.007 1674	125	3 53	20 13
30	792.5	18 30 17.71	97 42 32.2	57 12.5	−1.10	0.007 1799	104	3 54	20 13
Juli 1	793.5	18 34 14.27	98 39 44.7	57 12.7	−0.99	0.007 1903	83	3 54	20 13
2	794.5	18 38 10.82	99 36 57.4	57 12.9	−0.86	0.007 1986	60	3 55	20 12
3	795.5	18 42 7.38	100 34 10.3	57 13.0	−0.72	0.007 2046	35	3 56	20 12
4	796.5	18 46 3.94	101 31 23.3	57 13.2	−0.58	0.007 2081	10	3 56	20 12
5	797.5	18 50 0.50	102 28 36.5	57 13.4	−0.46	0.007 2091	17	3 57	20 11
6	798.5	18 53 57.06	103 25 49.9	57 13.6	−0.35	0.007 2074	43	3 58	20 11
7	799.5	18 57 53.61	104 23 3.5	57 13.6	−0.25	0.007 2031	71	3 59	20 10
8	800.5	19 1 50.17	105 20 17.1	57 13.8	−0.18	0.007 1960	98	4 0	20 10
9	801.5	19 5 46.73	106 17 30.9	57 13.7	−0.15	0.007 1862	124	4 0	20 9
10	802.5	19 9 43.29	107 14 44.6	57 13.6	−0.15	0.007 1738	150	4 1	20 8
11	803.5	19 13 39.85	108 11 58.2	57 13.6	−0.18	0.007 1588	174	4 2	20 8
12	804.5	19 17 36.40	109 9 11.8	57 13.6	−0.23	0.007 1414	195	4 3	20 7
13	805.5	19 21 32.96	110 6 25.4	57 13.5	−0.32	0.007 1219	217	4 4	20 6
14	806.5	19 25 29.52	111 3 38.9	57 13.6	−0.42	0.007 1002	236	4 6	20 5
15	807.5	19 29 26.08	112 0 52.5	57 13.6	−0.54	0.007 0766	254	4 7	20 4
16	808.5	19 33 22.64	112 58 6.1	57 13.8	−0.66	0.007 0512	272	4 8	20 3
17	809.5	19 37 19.19	113 55 19.9	57 14.1	−0.78	0.007 0240	290	4 9	20 2
18	810.5	19 41 15.75	114 52 34.0	57 14.3	−0.90	0.006 9950	305	4 10	20 1
19	811.5	19 45 12.31	115 49 48.3	57 14.6	−1.00	0.006 9645	320	4 11	20 0
20	812.5	19 49 8.87	116 47 2.9	57 15.1	−1.08	0.006 9325	335	4 12	19 59
21	813.5	19 53 5.42	117 44 18.0	57 15.5	−1.15	0.006 8990	350	4 14	19 58
22	814.5	19 57 1.98	118 41 33.5	57 16.0	−1.19	0.006 8640	364	4 15	19 57
23	815.5	20 0 58.54	119 38 49.5	57 16.8	−1.21	0.006 8276	378	4 16	19 56
24	816.5	20 4 55.10	120 36 6.3		−1.20	0.006 7898		4 17	19 55

Tag	Wochentag	0h Welt-Zeit: Zeitgleichung (Mittlere Zeit *minus* Wahre Zeit)	Diff.	Scheinbare Rektaszension	Diff.	Scheinbare Deklination	Diff.	Halbe Durchgangs-Dauer St.-Zt.	Halbmesser
1929									
Juli 24	Mi	+6m 18.89s	1.33s	8h 11m 13.99s	3m 57.88s	+20° 1′ 50.9″	12′ 31.1″	67.35s	15′ 46.58″
25	Do	6 20.22	0.75	8 15 11.87	3 57.31	19 49 19.8	12 50.9	67.27	15 46.67
26	Fr	6 20.97	0.18	8 19 9.18	3 56.73	19 36 28.9	13 10.5	67.19	15 46.76
27	Sa	6 21.15	0.41	8 23 5.91	3 56.15	19 23 18.4	13 29.7	67.10	15 46.85
28	St	6 20.74	0.99	8 27 2.06	3 55.57	19 9 48.7	13 48.7	67.02	15 46.95
29	Mo	6 19.75	1.57	8 30 57.63	3 54.99	18 56 0.0	14 7.6	66.93	15 47.05
30	Di	+6 18.18	2.15	8 34 52.62	3 54.41	+18 41 52.4	14 26.1	66.84	15 47.15
31	Mi	6 16.03	2.73	8 38 47.03	3 53.82	18 27 26.3	14 44.3	66.76	15 47.26
Aug. 1	Do	6 13.30	3.32	8 42 40.85	3 53.23	18 12 42.0	15 2.4	66.67	15 47.37
2	Fr	6 9.98	3.92	8 46 34.08	3 52.63	17 57 39.6	15 20.0	66.58	15 47.49
3	Sa	6 6.06	4.51	8 50 26.71	3 52.05	17 42 19.6	15 37.4	66.50	15 47.61
4	St	6 1.55	5.11	8 54 18.76	3 51.45	17 26 42.2	15 54.4	66.41	15 47.74
5	Mo	+5 56.44	5.72	8 58 10.21	3 50.84	+17 10 47.8	16 11.2	66.32	15 47.87
6	Di	5 50.72	6.31	9 2 1.05	3 50.24	16 54 36.6	16 27.6	66.24	15 48.01
7	Mi	5 44.41	6.91	9 5 51.29	3 49.64	16 38 9.0	16 43.8	66.15	15 48.15
8	Do	5 37.50	7.52	9 9 40.93	3 49.04	16 21 25.2	16 59.5	66.06	15 48.30
9	Fr	5 29.98	8.12	9 13 29.97	3 48.44	16 4 25.7	17 15.0	65.98	15 48.45
10	Sa	5 21.86	8.72	9 17 18.41	3 47.84	15 47 10.7	17 30.2	65.89	15 48.61
11	St	+5 13.14	9.30	9 21 6.25	3 47.25	+15 29 40.5	17 44.9	65.81	15 48.77
12	Mo	5 3.84	9.88	9 24 53.50	3 46.68	15 11 55.6	17 59.4	65.73	15 48.94
13	Di	4 53.96	10.46	9 28 40.18	3 46.10	14 53 56.2	18 13.7	65.65	15 49.11
14	Mi	4 43.50	11.02	9 32 26.28	3 45.53	14 35 42.5	18 27.5	65.57	15 49.28
15	Do	4 32.48	11.57	9 36 11.81	3 44.98	14 17 15.0	18 41.0	65.49	15 49.46
16	Fr	4 20.91	12.11	9 39 56.79	3 44.44	13 58 34.0	18 54.3	65.41	15 49.64
17	Sa	+4 8.80	12.65	9 43 41.23	3 43.92	+13 39 39.7	19 7.3	65.33	15 49.82
18	St	3 56.15	13.15	9 47 25.15	3 43.40	13 20 32.4	19 19.9	65.26	15 50.00
19	Mo	3 43.00	13.65	9 51 8.55	3 42.90	13 1 12.5	19 32.2	65.18	15 50.19
20	Di	3 29.35	14.14	9 54 51.45	3 42.42	12 41 40.3	19 44.2	65.11	15 50.38
21	Mi	3 15.21	14.61	9 58 33.87	3 41.95	12 21 56.1	19 56.0	65.04	15 50.57
22	Do	3 0.60	15.06	10 2 15.82	3 41.49	12 2 0.1	20 7.4	64.97	15 50.77
23	Fr	+2 45.54	15.49	10 5 57.31	3 41.06	+11 41 52.7	20 18.5	64.91	15 50.96
24	Sa	2 30.05	15.92	10 9 38.37	3 40.64	11 21 34.2	20 29.4	64.84	15 51.16
25	St	2 14.13	16.32	10 13 19.01	3 40.24	11 1 4.8	20 40.0	64.78	15 51.36
26	Mo	1 57.81	16.71	10 16 59.25	3 39.85	10 40 24.8	20 50.2	64.72	15 51.56
27	Di	1 41.10	17.07	10 20 39.10	3 39.48	10 19 34.6	21 0.2	64.66	15 51.77
28	Mi	1 24.03	17.43	10 24 18.58	3 39.12	9 58 34.4	21 9.8	64.60	15 51.97
29	Do	+1 6.60	17.77	10 27 57.70	3 38.78	+ 9 37 24.6	21 19.1	64.55	15 52.18
30	Fr	0 48.83	18.10	10 31 36.48	3 38.46	9 16 5.5	21 28.1	64.49	15 52.40
31	Sa	0 30.73	18.41	10 35 14.94	3 38.14	8 54 37.4	21 36.9	64.44	15 52.61
Sept. 1	St	+0 12.32	18.71	10 38 53.08	3 37.84	8 33 0.5	21 45.2	64.39	15 52.83
2	Mo	−0 6.39	18.99	10 42 30.92	3 37.56	8 11 15.3	21 53.1	64.35	15 53.06
3	Di	−0 25.38		10 46 8.48		+ 7 49 22.2		64.31	15 53.29

Tag		0h Welt-Zeit Julian. Zeit	Sternzeit	Mittleres Äquinoktium 1929.0 Länge		Breite	log R		Aufgang in +50° Breite, 0h Länge	Untergang in +50° Breite, 0h Länge
1929		2425	h m s	° ′ ″	′ ″	″			h m	h m
Juli	24	816.5	20 4 55.10	120 36 6.3	57 17.6	−1.20	0.006 7898	392	4 17	19 55
	25	817.5	20 8 51.65	121 33 23.9	57 18.3	−1.17	0.006 7506	407	4 19	19 53
	26	818.5	20 12 48.21	122 30 42.2	57 19.3	−1.10	0.006 7099	423	4 20	19 52
	27	819.5	20 16 44.77	123 28 1.5	57 20.2	−1.01	0.006 6676	439	4 21	19 51
	28	820.5	20 20 41.32	124 25 21.7	57 21.2	−0.90	0.006 6237	456	4 22	19 49
	29	821.5	20 24 37.88	125 22 42.9	57 22.3	−0.77	0.006 5781	474	4 24	19 48
	30	822.5	20 28 34.44	126 20 5.2	57 23.4	−0.63	0.006 5307	493	4 25	19 46
	31	823.5	20 32 30.99	127 17 28.6	57 24.6	−0.49	0.006 4814	514	4 27	19 45
Aug.	1	824.5	20 36 27.55	128 14 53.2	57 25.6	−0.36	0.006 4300	536	4 28	19 44
	2	825.5	20 40 24.11	129 12 18.8	57 26.8	−0.24	0.006 3764	559	4 30	19 42
	3	826.5	20 44 20.66	130 9 45.6	57 27.9	−0.14	0.006 3205	583	4 31	19 40
	4	827.5	20 48 17.22	131 7 13.5	57 28.9	−0.07	0.006 2622	608	4 32	19 39
	5	828.5	20 52 13.78	132 4 42.4	57 30.0	−0.03	0.006 2014	632	4 34	19 37
	6	829.5	20 56 10.33	133 2 12.4	57 30.9	−0.01	0.006 1382	657	4 35	19 36
	7	830.5	21 0 6.89	133 59 43.3	57 31.8	−0.04	0.006 0725	680	4 37	19 34
	8	831.5	21 4 3.44	134 57 15.1	57 32.7	−0.09	0.006 0045	702	4 38	19 32
	9	832.5	21 8 0.00	135 54 47.8	57 33.5	−0.17	0.005 9343	724	4 40	19 30
	10	833.5	21 11 56.56	136 52 21.3	57 34.5	−0.27	0.005 8619	743	4 41	19 28
	11	834.5	21 15 53.11	137 49 55.8	57 35.3	−0.38	0.005 7876	761	4 42	19 27
	12	835.5	21 19 49.67	138 47 31.1	57 36.2	−0.49	0.005 7115	778	4 44	19 25
	13	836.5	21 23 46.22	139 45 7.3	57 37.1	−0.60	0.005 6337	794	4 45	19 23
	14	837.5	21 27 42.78	140 42 44.4	57 38.1	−0.70	0.005 5543	808	4 47	19 21
	15	838.5	21 31 39.33	141 40 22.5	57 39.2	−0.80	0.005 4735	821	4 48	19 20
	16	839.5	21 35 35.89	142 38 1.7	57 40.2	−0.89	0.005 3914	834	4 50	19 18
	17	840.5	21 39 32.44	143 35 41.9	57 41.4	−0.96	0.005 3080	845	4 51	19 16
	18	841.5	21 43 29.00	144 33 23.3	57 42.7	−1.01	0.005 2235	855	4 53	19 14
	19	842.5	21 47 25.55	145 31 6.0	57 43.9	−1.01	0.005 1380	866	4 54	19 12
	20	843.5	21 51 22.11	146 28 49.9	57 45.3	−1.00	0.005 0514	875	4 56	19 10
	21	844.5	21 55 18.66	147 26 35.2	57 46.7	−0.96	0.004 9639	884	4 57	19 8
	22	845.5	21 59 15.22	148 24 21.9	57 48.2	−0.90	0.004 8755	893	4 59	19 6
	23	846.5	22 3 11.77	149 22 10.1	57 49.9	−0.81	0.004 7862	902	5 0	19 4
	24	847.5	22 7 8.33	150 20 0.0	57 51.5	−0.69	0.004 6960	912	5 2	19 2
	25	848.5	22 11 4.88	151 17 51.5	57 53.3	−0.56	0.004 6048	922	5 3	19 0
	26	849.5	22 15 1.44	152 15 44.8	57 55.1	−0.42	0.004 5126	933	5 5	18 58
	27	850.5	22 18 57.99	153 13 39.9	57 56.9	−0.28	0.004 4193	945	5 6	18 56
	28	851.5	22 22 54.55	154 11 36.8	57 58.8	−0.15	0.004 3248	959	5 8	18 54
	29	852.5	22 26 51.10	155 9 35.6	58 0.7	−0.02	0.004 2289	972	5 9	18 52
	30	853.5	22 30 47.66	156 7 36.3	58 2.6	+0.08	0.004 1317	988	5 11	18 50
	31	854.5	22 34 44.21	157 5 38.9	58 4.4	+0.17	0.004 0329	1005	5 12	18 48
Sept.	1	855.5	22 38 40.76	158 3 43.3	58 6.2	+0.22	0.003 9324	1022	5 14	18 45
	2	856.5	22 42 37.32	159 1 49.5	58 8.1	+0.24	0.003 8302	1040	5 15	18 43
	3	857.5	22 46 33.87	159 59 57.6		+0.21	0.003 7262		5 17	18 41

Tag	Wochentag	0h Welt-Zeit: Zeitgleichung (Mittlere Zeit *minus* Wahre Zeit) m s	Diff. s	Scheinbare Rektaszension h m s	Diff. m s	Scheinbare Deklination ° ' "	Diff. ' "	Halbe Durchgangs-Dauer St.-Zt. s	Halbmesser ' "
1929 Sept. 3	Di	— 0 25.38	19.27	10 46 8.48	3 37.29	+7 49 22.2	22 0.8	64.31	15 53.29
4	Mi	0 44.65	19.53	10 49 45.77	3 37.02	7 27 21.4	22 8.1	64.27	15 53.52
5	Do	1 4.18	19.78	10 53 22.79	3 36.78	7 5 13.3	22 14.9	64.23	15 53.75
6	Fr	1 23.96	20.01	10 56 59.57	3 36.54	6 42 58.4	22 21.6	64.20	15 53.99
7	Sa	1 43.97	20.23	11 0 36.11	3 36.32	6 20 36.8	22 27.8	64.17	15 54.24
8	St	2 4.20	20.43	11 4 12.43	3 36.13	5 58 9.0	22 33.7	64.14	15 54.48
9	Mo	— 2 24.63	20.62	11 7 48.56	3 35.94	+5 35 35.3	22 39.2	64.12	15 54.73
10	Di	2 45.25	20.78	11 11 24.50	3 35.77	5 12 56.1	22 44.3	64.09	15 54.99
11	Mi	3 6.03	20.92	11 15 0.27	3 35.63	4 50 11.8	22 49.2	64.07	15 55.24
12	Do	3 26.95	21.05	11 18 35.90	3 35.51	4 27 22.6	22 53.8	64.05	15 55.50
13	Fr	3 48.00	21.15	11 22 11.41	3 35.40	4 4 28.8	22 58.0	64.04	15 55.75
14	Sa	4 9.15	21.24	11 25 46.81	3 35.31	3 41 30.8	23 1.8	64.03	15 56.01
15	St	— 4 30.39	21.30	11 29 22.12	3 35.25	+3 18 29.0	23 5.4	64.02	15 56.27
16	Mo	4 51.69	21.34	11 32 57.37	3 35.22	2 55 23.6	23 8.7	64.01	15 56.54
17	Di	5 13.03	21.35	11 36 32.59	3 35.20	2 32 14.9	23 11.5	64.01	15 56.80
18	Mi	5 34.38	21.35	11 40 7.79	3 35.20	2 9 3.4	23 14.2	64.01	15 57.06
19	Do	5 55.73	21.32	11 43 42.99	3 35.23	1 45 49.2	23 16.5	64.01	15 57.32
20	Fr	6 17.05	21.27	11 47 18.22	3 35.29	1 22 32.7	23 18.4	64.01	15 57.59
21	Sa	— 6 38.32	21.19	11 50 53.51	3 35.36	+0 59 14.3	23 20.2	64.02	15 57.85
22	St	6 59.51	21.09	11 54 28.87	3 35.46	0 35 54.1	23 21.5	64.03	15 58.11
23	Mo	7 20.60	20.97	11 58 4.33	3 35.59	+0 12 32.6	23 22.6	64.05	15 58.38
24	Di	7 41.57	20.82	12 1 39.92	3 35.74	—0 10 50.0	23 23.4	64.07	15 58.64
25	Mi	8 2.39	20.65	12 5 15.66	3 35.90	0 34 13.4	23 23.8	64.09	15 58.90
26	Do	8 23.04	20.46	12 8 51.56	3 36.09	0 57 37.2	23 23.9	64.11	15 59.17
27	Fr	— 8 43.50	20.25	12 12 27.65	3 36.31	—1 21 1.1	23 23.6	64.14	15 59.44
28	Sa	9 3.75	20.02	12 16 3.96	3 36.53	1 44 24.7	23 23.0	64.17	15 59.70
29	St	9 23.77	19.77	12 19 40.49	3 36.78	2 7 47.7	23 22.0	64.20	15 59.97
30	Mo	9 43.54	19.51	12 23 17.27	3 37.05	2 31 9.7	23 20.7	64.24	16 0.24
Okt. 1	Di	10 3.05	19.22	12 26 54.32	3 37.33	2 54 30.4	23 19.0	64.28	16 0.51
2	Mi	10 22.27	18.93	12 30 31.65	3 37.63	3 17 49.4	23 16.8	64.33	16 0.78
3	Do	—10 41.20	18.62	12 34 9.28	3 37.94	—3 41 6.2	23 14.4	64.37	16 1.06
4	Fr	10 59.82	18.28	12 37 47.22	3 38.27	4 4 20.6	23 11.5	64.42	16 1.34
5	Sa	11 18.10	17.93	12 41 25.49	3 38.62	4 27 32.1	23 8.1	64.47	16 1.61
6	St	11 36.03	17.57	12 45 4.11	3 38.98	4 50 40.2	23 4.5	64.52	16 1.89
7	Mo	11 53.60	17.18	12 48 43.09	3 39.36	5 13 44.7	23 0.5	64.58	16 2.18
8	Di	12 10.78	16.79	12 52 22.45	3 39.77	5 36 45.2	22 56.0	64.64	16 2.46
9	Mi	—12 27.57	16.37	12 56 2.22	3 40.19	—5 59 41.2	22 51.2	64.70	16 2.74
10	Do	12 43.94	15.93	12 59 42.41	3 40.62	6 22 32.4	22 46.1	64.76	16 3.02
11	Fr	12 59.87	15.48	13 3 23.03	3 41.08	6 45 18.5	22 40.5	64.83	16 3.30
12	Sa	13 15.35	14.99	13 7 4.11	3 41.56	7 7 59.0	22 34.5	64.90	16 3.59
13	St	13 30.34	14.50	13 10 45.67	3 42.05	7 30 33.5	22 28.2	64.98	16 3.87
14	Mo	—13 44.84		13 14 27.72		—7 53 1.7		65.05	16 4.15

Tag	0h Welt-Zeit							Auf-gang	Unter-gang
	Julian. Zeit	Sternzeit	Mittleres Äquinoktium 1929.0 Länge		Breite	log R		in {+50° Breite, 0h Länge}	
1929	2425	h m s	° ′ ″	′ ″	″			h m	h m
Sept. 3	857.5	22 46 33.87	159 59 57.6	58 9.8	+0.21	0.003 7262	1058	5 17	18 41
4	858.5	22 50 30.43	160 58 7.4	58 11.5	+0.17	0.003 6204	1076	5 18	18 39
5	859.5	22 54 26.98	161 56 18.9	58 13.1	+0.10	0.003 5128	1092	5 20	18 37
6	860.5	22 58 23.53	162 54 32.0	58 14.7	+0.02	0.003 4036	1107	5 21	18 35
7	861.5	23 2 20.09	163 52 46.7	58 16.2	−0.09	0.003 2929	1122	5 23	18 32
8	862.5	23 6 16.64	164 51 2.9	58 17.8	−0.20	0.003 1807	1135	5 24	18 30
9	863.5	23 10 13.19	165 49 20.7	58 19.3	−0.32	0.003 0672	1147	5 26	18 28
10	864.5	23 14 9.75	166 47 40.0	58 20.9	−0.43	0.002 9525	1157	5 27	18 26
11	865.5	23 18 6.30	167 46 0.9	58 22.5	−0.54	0.002 8368	1165	5 29	18 24
12	866.5	23 22 2.86	168 44 23.4	58 24.0	−0.62	0.002 7203	1172	5 30	18 22
13	867.5	23 25 59.41	169 42 47.4	58 25.6	−0.69	0.002 6031	1179	5 32	18 20
14	868.5	23 29 55.96	170 41 13.0	58 27.3	−0.73	0.002 4852	1184	5 33	18 17
15	869.5	23 33 52.52	171 39 40.3	58 29.0	−0.74	0.002 3668	1188	5 35	18 15
16	870.5	23 37 49.07	172 38 9.3	58 30.8	−0.73	0.002 2480	1191	5 36	18 13
17	871.5	23 41 45.63	173 36 40.1	58 32.6	−0.69	0.002 1289	1192	5 38	18 11
18	872.5	23 45 42.18	174 35 12.7	58 34.4	−0.63	0.002 0097	1193	5 39	18 8
19	873.5	23 49 38.73	175 33 47.1	58 36.3	−0.53	0.001 8904	1194	5 41	18 6
20	874.5	23 53 35.28	176 32 23.4	58 38.4	−0.42	0.001 7710	1194	5 42	18 3
21	875.5	23 57 31.84	177 31 1.8	58 40.4	−0.29	0.001 6516	1193	5 44	18 2
22	876.5	0 1 28.39	178 29 42.2	58 42.5	−0.14	0.001 5323	1194	5 45	18 0
23	877.5	0 5 24.94	179 28 24.7	58 44.8	0.00	0.001 4129	1194	5 47	17 57
24	878.5	0 9 21.50	180 27 9.5	58 47.1	+0.15	0.001 2935	1197	5 48	17 55
25	879.5	0 13 18.05	181 25 56.6	58 49.3	+0.28	0.001 1738	1199	5 50	17 53
26	880.5	0 17 14.60	182 24 45.9	58 51.7	+0.40	0.001 0539	1202	5 51	17 51
27	881.5	0 21 11.16	183 23 37.6	58 53.9	+0.49	0.000 9337	1208	5 53	17 48
28	882.5	0 25 7.71	184 22 31.5	58 56.3	+0.54	0.000 8129	1213	5 54	17 46
29	883.5	0 29 4.26	185 21 27.8	58 58.5	+0.57	0.000 6916	1220	5 56	17 44
30	884.5	0 33 0.82	186 20 26.3	59 0.8	+0.56	0.000 5696	1228	5 57	17 42
Okt. 1	885.5	0 36 57.37	187 19 27.1	59 2.9	+0.52	0.000 4468	1235	5 59	17 40
2	886.5	0 40 53.92	188 18 30.0	59 5.0	+0.46	0.000 3233	1243	6 0	17 38
3	887.5	0 44 50.48	189 17 35.0	59 7.1	+0.37	0.000 1990	1251	6 2	17 35
4	888.5	0 48 47.03	190 16 42.1	59 9.0	+0.26	0.000 0739	1257	6 4	17 33
5	889.5	0 52 43.59	191 15 51.1	59 11.0	+0.14	9.999 9482	1264	6 5	17 31
6	890.5	0 56 40.14	192 15 2.1	59 12.8	+0.01	9.999 8218	1269	6 7	17 29
7	891.5	1 0 36.69	193 14 14.9	59 14.6	−0.10	9.999 6949	1271	6 8	17 27
8	892.5	1 4 33.25	194 13 29.5	59 16.5	−0.21	9.999 5678	1274	6 10	17 25
9	893.5	1 8 29.80	195 12 46.0	59 18.2	−0.30	9.999 4404	1275	6 11	17 23
10	894.5	1 12 26.35	196 12 4.2	59 20.1	−0.37	9.999 3129	1274	6 13	17 20
11	895.5	1 16 22.91	197 11 24.3	59 21.9	−0.43	9.999 1855	1271	6 14	17 18
12	896.5	1 20 19.46	198 10 46.2	59 23.6	−0.45	9.999 0584	1269	6 16	17 16
13	897.5	1 24 16.02	199 10 9.8	59 25.4	−0.44	9.998 9315	1264	6 18	17 14
14	898.5	1 28 12.57	200 9 35.2		−0.41	9.998 8051		6 19	17 12

Tag	Wochentag	Zeitgleichung Mittlere Zeit *minus* Wahre Zeit (m s)	Diff. (s)	Scheinbare Rektaszension (h m s)	Diff. (m s)	Scheinbare Deklination (° ′ ″)	Diff. (′ ″)	Halbe Durchgangs-Dauer St.-Zt. (s)	Halbmesser (′ ″)
1929									
Okt. 14	Mo	−13 44.84	13.99	13 14 27.72	3 42.57	−7 53 1.7	22 21.6	65.05	16 4.15
15	Di	13 58.83	13.45	13 18 10.29	3 43.11	8 15 23.3	22 14.6	65.13	16 4.43
16	Mi	14 12.28	12.89	13 21 53.40	3 43.66	8 37 37.9	22 7.2	65.21	16 4.71
17	Do	14 25.17	12.32	13 25 37.06	3 44.23	8 59 45.1	21 59.4	65.30	16 4.98
18	Fr	14 37.49	11.72	13 29 21.29	3 44.83	9 21 44.5	21 51.3	65.38	16 5.26
19	Sa	14 49.21	11.10	13 33 6.12	3 45.45	9 43 35.8	21 42.8	65.47	16 5.53
20	St	−15 0.31	10.47	13 36 51.57	3 46.09	−10 5 18.6	21 34.0	65.57	16 5.80
21	Mo	15 10.78	9.81	13 40 37.66	3 46.75	10 26 52.6	21 24.8	65.67	16 6.06
22	Di	15 20.59	9.13	13 44 24.41	3 47.43	10 48 17.4	21 15.3	65.76	16 6.33
23	Mi	15 29.72	8.43	13 48 11.84	3 48.12	11 9 32.7	21 5.4	65.86	16 6.59
24	Do	15 38.15	7.72	13 51 59.96	3 48.84	11 30 38.1	20 55.0	65.96	16 6.85
25	Fr	15 45.87	6.99	13 55 48.80	3 49.56	11 51 33.1	20 44.3	66.06	16 7.11
26	Sa	−15 52.86	6.25	13 59 38.36	3 50.30	−12 12 17.4	20 33.3	66.16	16 7.37
27	St	15 59.11	5.50	14 3 28.66	3 51.06	12 32 50.7	20 21.7	66.27	16 7.62
28	Mo	16 4.61	4.73	14 7 19.72	3 51.82	12 53 12.4	20 9.8	66.37	16 7.88
29	Di	16 9.34	3.96	14 11 11.54	3 52.59	13 13 22.2	19 57.4	66.48	16 8.13
30	Mi	16 13.30	3.18	14 15 4.13	3 53.38	13 33 19.6	19 44.6	66.59	16 8.38
31	Do	16 16.48	2.40	14 18 57.51	3 54.17	13 53 4.2	19 31.4	66.70	16 8.63
Nov. 1	Fr	−16 18.88	1.60	14 22 51.68	3 54.96	−14 12 35.6	19 17.8	66.82	16 8.88
2	Sa	16 20.48	0.79	14 26 46.64	3 55.75	14 31 53.4	19 3.6	66.93	16 9.13
3	St	16 21.27	0.01	14 30 42.39	3 56.56	14 50 57.0	18 49.1	67.04	16 9.38
4	Mo	16 21.26	0.82	14 34 38.95	3 57.38	15 9 46.1	18 34.2	67.16	16 9.63
5	Di	16 20.44	1.63	14 38 36.33	3 58.19	15 28 20.3	18 18.8	67.28	16 9.88
6	Mi	16 18.81	2.45	14 42 34.52	3 59.01	15 46 39.1	18 3.0	67.39	16 10.13
7	Do	−16 16.36	3.27	14 46 33.53	3 59.83	−16 4 42.1	17 46.8	67.51	16 10.37
8	Fr	16 13.09	4.10	14 50 33.36	4 0.65	16 22 28.9	17 30.1	67.63	16 10.61
9	Sa	16 8.99	4.93	14 54 34.01	4 1.48	16 39 59.0	17 13.1	67.75	16 10.85
10	St	16 4.06	5.75	14 58 35.49	4 2.31	16 57 12.1	16 55.7	67.87	16 11.09
11	Mo	15 58.31	6.59	15 2 37.80	4 3.14	17 14 7.8	16 38.0	67.99	16 11.32
12	Di	15 51.72	7.41	15 6 40.94	4 3.97	17 30 45.8	16 19.8	68.11	16 11.56
13	Mi	−15 44.31	8.25	15 10 44.91	4 4.81	−17 47 5.6	16 1.1	68.23	16 11.79
14	Do	15 36.06	9.09	15 14 49.72	4 5.65	18 3 6.7	15 42.2	68.35	16 12.01
15	Fr	15 26.97	9.93	15 18 55.37	4 6.48	18 18 48.9	15 22.8	68.47	16 12.23
16	Sa	15 17.04	10.76	15 23 1.85	4 7.32	18 34 11.7	15 3.1	68.59	16 12.44
17	St	15 6.28	11.60	15 27 9.17	4 8.15	18 49 14.8	14 43.1	68.70	16 12.65
18	Mo	14 54.68	12.43	15 31 17.32	4 8.99	19 3 57.9	14 22.6	68.82	16 12.86
19	Di	−14 42.25	13.27	15 35 26.31	4 9.83	−19 18 20.5	14 1.9	68.93	16 13.06
20	Mi	14 28.98	14.10	15 39 36.14	4 10.66	19 32 22.4	13 40.8	69.05	16 13.26
21	Do	14 14.88	14.93	15 43 46.80	4 11.49	19 46 3.2	13 19.4	69.16	16 13.45
22	Fr	13 59.95	15.75	15 47 58.29	4 12.31	19 59 22.6	12 57.5	69.27	16 13.64
23	Sa	13 44.20	16.56	15 52 10.60	4 13.12	20 12 20.1	12 35.4	69.38	16 13.82
24	St	−13 27.64		15 56 23.72		−20 24 55.5		69.49	16 14.00

0h Welt-Zeit

Tag	0h Welt-Zeit Julian. Zeit	Sternzeit	Mittleres Äquinoktium 1929.0 Länge		Breite	log R		Auf-gang in (+50° Breite, 0h Länge)	Unter-gang
1929	2425	h m s	° ′ ″	′ ″	″			h m	h m
Okt. 14	898.5	1 28 12.57	200 9 35.2	59 27.2	−0.41	9.998 8051	1258	6 19	17 12
15	899.5	1 32 9.12	201 9 2.4	59 29.1	−0.35	9.998 6793	1252	6 21	17 10
16	900.5	1 36 5.68	202 8 31.5	59 31.0	−0.27	9.998 5541	1242	6 22	17 8
17	901.5	1 40 2.23	203 8 2.5	59 32.9	−0.15	9.998 4299	1232	6 24	17 6
18	902.5	1 43 58.79	204 7 35.4	59 34.8	−0.01	9.998 3067	1222	6 26	17 4
19	903.5	1 47 55.34	205 7 10.2	59 36.8	+0.13	9.998 1845	1211	6 27	17 2
20	904.5	1 51 51.89	206 6 47.0	59 39.0	+0.28	9.998 0634	1199	6 29	17 0
21	905.5	1 55 48.45	207 6 26.0	59 41.2	+0.43	9.997 9435	1189	6 30	16 58
22	906.5	1 59 45.00	208 6 7.2	59 43.5	+0.57	9.997 8246	1178	6 32	16 56
23	907.5	2 3 41.56	209 5 50.7	59 45.6	+0.69	9.997 7068	1169	6 34	16 54
24	908.5	2 7 38.11	210 5 36.3	59 47.9	+0.78	9.997 5899	1160	6 35	16 52
25	909.5	2 11 34.67	211 5 24.2	59 50.2	+0.86	9.997 4739	1152	6 37	16 50
26	910.5	2 15 31.22	212 5 14.4	59 52.4	+0.90	9.997 3587	1147	6 39	16 49
27	911.5	2 19 27.78	213 5 6.8	59 54.7	+0.90	9.997 2440	1141	6 40	16 47
28	912.5	2 23 24.33	214 5 1.5	59 56.9	+0.88	9.997 1299	1136	6 42	16 45
29	913.5	2 27 20.89	215 4 58.4	59 58.9	+0.81	9.997 0163	1132	6 44	16 43
30	914.5	2 31 17.44	216 4 57.3	60 1.1	+0.73	9.996 9031	1129	6 45	16 41
31	915.5	2 35 14.00	217 4 58.4	60 3.0	+0.61	9.996 7902	1125	6 47	16 40
Nov. 1	916.5	2 39 10.56	218 5 1.4	60 4.9	+0.49	9.996 6777	1122	6 49	16 38
2	917.5	2 43 7.11	219 5 6.3	60 6.8	+0.37	9.996 5655	1119	6 50	16 36
3	918.5	2 47 3.67	220 5 13.1	60 8.4	+0.25	9.996 4536	1114	6 52	16 34
4	919.5	2 51 0.22	221 5 21.5	60 10.3	+0.14	9.996 3422	1107	6 54	16 33
5	920.5	2 54 56.78	222 5 31.8	60 11.8	+0.04	9.996 2315	1100	6 55	16 31
6	921.5	2 58 53.33	223 5 43.6	60 13.4	−0.03	9.996 1215	1094	6 57	16 30
7	922.5	3 2 49.89	224 5 57.0	60 14.9	−0.08	9.996 0121	1084	6 59	16 28
8	923.5	3 6 46.44	225 6 11.9	60 16.5	−0.11	9.995 9037	1073	7 0	16 27
9	924.5	3 10 43.00	226 6 28.4	60 17.9	−0.11	9.995 7964	1063	7 2	16 25
10	925.5	3 14 39.56	227 6 46.3	60 19.4	−0.10	9.995 6901	1049	7 4	16 24
11	926.5	3 18 36.11	228 7 5.7	60 20.8	−0.04	9.995 5852	1034	7 5	16 22
12	927.5	3 22 32.67	229 7 26.5	60 22.3	+0.03	9.995 4818	1019	7 7	16 21
13	928.5	3 26 29.23	230 7 48.8	60 23.6	+0.13	9.995 3799	1002	7 9	16 19
14	929.5	3 30 25.78	231 8 12.4	60 25.0	+0.25	9.995 2797	983	7 10	16 18
15	930.5	3 34 22.34	232 8 37.4	60 26.6	+0.39	9.995 1814	963	7 12	16 17
16	931.5	3 38 18.90	233 9 4.0	60 28.0	+0.54	9.995 0851	941	7 14	16 16
17	932.5	3 42 15.45	234 9 32.0	60 29.6	+0.70	9.994 9910	921	7 15	16 14
18	933.5	3 46 12.01	235 10 1.6	60 31.3	+0.84	9.994 8989	899	7 17	16 13
19	934.5	3 50 8.57	236 10 32.9	60 32.8	+0.96	9.994 8090	877	7 18	16 12
20	935.5	3 54 5.13	237 11 5.7	60 34.6	+1.05	9.994 7213	857	7 20	16 11
21	936.5	3 58 1.68	238 11 40.3	60 36.3	+1.13	9.994 6356	836	7 22	16 10
22	937.5	4 1 58.24	239 12 16.6	60 38.0	+1.18	9.994 5520	817	7 23	16 9
23	938.5	4 5 54.80	240 12 54.6	60 39.8	+1.19	9.994 4703	800	7 24	16 8
24	939.5	4 9 51.36	241 13 34.4		+1.17	9.994 3903		7 26	16 7

Tag	Wochentag	Zeitgleichung Mittlere Zeit *minus* Wahre Zeit (m s)	Diff. (s)	Scheinbare Rektaszension (h m s)	Diff. (m s)	Scheinbare Deklination (° ′ ″)	Diff. (′ ″)	Halbe Durchgangs-Dauer St.-Zt. (s)	Halbmesser (′ ″)
1929 Nov. 24	St	−13 27.64	17.36	15 56 23.72	4 13.91	−20 24 55.5	12 12.7	69.49	16 14.00
25	Mo	13 10.28	18.14	16 0 37.63	4 14.70	20 37 8.2	11 49.8	69.60	16 14.18
26	Di	12 52.14	18.91	16 4 52.33	4 15.47	20 48 58.0	11 26.7	69.70	16 14.35
27	Mi	12 33.23	19.65	16 9 7.80	4 16.21	21 0 24.7	11 3.0	69.80	16 14.52
28	Do	12 13.58	20.39	16 13 24.01	4 16.94	21 11 27.7	10 39.1	69.90	16 14.68
29	Fr	11 53.19	21.09	16 17 40.95	4 17.65	21 22 6.8	10 14.8	70.00	16 14.85
30	Sa	−11 32.10	21.78	16 21 58.60	4 18.34	−21 32 21.6	9 50.2	70.09	16 15.01
Dez. 1	St	11 10.32	22.44	16 26 16.94	4 19.00	21 42 11.8	9 25.3	70.18	16 15.16
2	Mo	10 47.88	23.07	16 30 35.94	4 19.63	21 51 37.1	9 0.2	70.27	16 15.32
3	Di	10 24.81	23.69	16 34 55.57	4 20.24	22 0 37.3	8 34.6	70.35	16 15.47
4	Mi	10 1.12	24.26	16 39 15.81	4 20.83	22 9 11.9	8 8.9	70.43	16 15.62
5	Do	9 36.86	24.82	16 43 36.64	4 21.38	22 17 20.8	7 42.9	70.51	16 15.76
6	Fr	− 9 12.04	25.36	16 47 58.02	4 21.91	−22 25 3.7	7 16.6	70.59	16 15.91
7	Sa	8 46.68	25.85	16 52 19.93	4 22.40	22 32 20.3	6 50.1	70.66	16 16.04
8	St	8 20.83	26.32	16 56 42.33	4 22.88	22 39 10.4	6 23.4	70.73	16 16.18
9	Mo	7 54.51	26.76	17 1 5.21	4 23.33	22 45 33.8	5 56.6	70.80	16 16.31
10	Di	7 27.75	27.18	17 5 28.54	4 23.74	22 51 30.4	5 29.5	70.86	16 16.43
11	Mi	7 0.57	27.56	17 9 52.28	4 24.11	22 56 59.9	5 2.2	70.92	16 16.55
12	Do	− 6 33.01	27.91	17 14 16.39	4 24.47	−23 2 2.1	4 34.8	70.97	16 16.67
13	Fr	6 5.10	28.24	17 18 40.86	4 24.80	23 6 36.9	4 7.2	71.02	16 16.78
14	Sa	5 36.86	28.53	17 23 5.66	4 25.09	23 10 44.1	3 39.6	71.06	16 16.88
15	St	5 8.33	28.80	17 27 30.75	4 25.36	23 14 23.7	3 11.8	71.10	16 16.98
16	Mo	4 39.53	29.05	17 31 56.11	4 25.61	23 17 35.5	2 44.0	71.13	16 17.08
17	Di	4 10.48	29.27	17 36 21.72	4 25.83	23 20 19.5	2 16.0	71.16	16 17.16
18	Mi	− 3 41.21	29.45	17 40 47.55	4 26.01	−23 22 35.5	1 47.9	71.19	16 17.24
19	Do	3 11.76	29.60	17 45 13.56	4 26.16	23 24 23.4	1 19.8	71.21	16 17.31
20	Fr	2 42.16	29.74	17 49 39.72	4 26.30	23 25 43.2	0 51.7	71.23	16 17.38
21	Sa	2 12.42	29.84	17 54 6.02	4 26.40	23 26 34.9	0 23.5	71.24	16 17.44
22	St	1 42.58	29.91	17 58 32.42	4 26.45	23 26 58.4	0 4.7	71.25	16 17.50
23	Mo	1 12.67	29.93	18 2 58.87	4 26.49	23 26 53.7	0 33.1	71.26	16 17.55
24	Di	− 0 42.74	29.92	18 7 25.36	4 26.49	−23 26 20.6	1 1.3	71.26	16 17.59
25	Mi	− 0 12.82	29.89	18 11 51.85	4 26.45	23 25 19.3	1 29.5	71.25	16 17.63
26	Do	+ 0 17.07	29.81	18 16 18.30	4 26.37	23 23 49.8	1 57.7	71.24	16 17.67
27	Fr	0 46.88	29.70	18 20 44.67	4 26.26	23 21 52.1	2 26.0	71.23	16 17.70
28	Sa	1 16.58	29.54	18 25 10.93	4 26.10	23 19 26.1	2 54.1	71.21	16 17.73
29	St	1 46.12	29.35	18 29 37.03	4 25.91	23 16 32.0	3 22.1	71.18	16 17.75
30	Mo	+ 2 15.47	29.13	18 34 2.94	4 25.69	−23 13 9.9	3 50.1	71.15	16 17.77
31	Di	2 44.60	28.87	18 38 28.63	4 25.43	23 9 19.8	4 17.9	71.12	16 17.79
32	Mi	+ 3 13.47		18 42 54.06		−23 5 1.9		71.08	16 17.80

Table header: 0ʰ Welt-Zeit

Tag	0ʰ Welt-Zeit							Auf-gang	Unter-gang
	Julian. Zeit	Sternzeit	Mittleres Äquinoktium 1929.0 Länge		Breite	log R		in {+50° Breite, 0ʰ Länge}	
1929	2425	h m s	° ′ ″	′ ″	″			h m	h m
Nov. 24	939.5	4 9 51.36	241 13 34.4	60 41.4	+1.17	9.994 3903	783	7 26	16 7
25	940.5	4 13 47.91	242 14 15.8	60 43.1	+1.11	9.994 3120	768	7 28	16 6
26	941.5	4 17 44.47	243 14 58.9	60 44.7	+1.03	9.994 2352	754	7 29	16 5
27	942.5	4 21 41.03	244 15 43.6	60 46.2	+0.92	9.994 1598	740	7 30	16 4
28	943.5	4 25 37.59	245 16 29.8	60 47.6	+0.81	9.994 0858	727	7 32	16 4
29	944.5	4 29 34.14	246 17 17.4	60 49.0	+0.69	9.994 0131	714	7 33	16 3
30	945.5	4 33 30.70	247 18 6.4	60 50.2	+0.56	9.993 9417	701	7 35	16 2
Dez. 1	946.5	4 37 27.26	248 18 56.6	60 51.4	+0.44	9.993 8716	688	7 36	16 2
2	947.5	4 41 23.82	249 19 48.0	60 52.5	+0.34	9.993 8028	675	7 37	16 1
3	948.5	4 45 20.38	250 20 40.5	60 53.5	+0.25	9.993 7353	661	7 39	16 0
4	949.5	4 49 16.94	251 21 34.0	60 54.4	+0.18	9.993 6692	646	7 40	16 0
5	950.5	4 53 13.49	252 22 28.4	60 55.3	+0.14	9.993 6046	630	7 41	16 0
6	951.5	4 57 10.05	253 23 23.7	60 56.1	+0.12	9.993 5416	614	7 42	15 59
7	952.5	5 1 6.61	254 24 19.8	60 56.9	+0.13	9.993 4802	597	7 44	15 59
8	953.5	5 5 3.17	255 25 16.7	60 57.6	+0.16	9.993 4205	578	7 45	15 58
9	954.5	5 8 59.73	256 26 14.3	60 58.2	+0.24	9.993 3627	558	7 46	15 58
10	955.5	5 12 56.29	257 27 12.5	60 58.8	+0.33	9.993 3069	537	7 47	15 58
11	956.5	5 16 52.85	258 28 11.3	60 59.3	+0.43	9.993 2532	515	7 48	15 58
12	957.5	5 20 49.40	259 29 10.6	60 59.9	+0.55	9.993 2017	490	7 49	15 58
13	958.5	5 24 45.96	260 30 10.5	61 0.5	+0.69	9.993 1527	465	7 50	15 58
14	959.5	5 28 42.52	261 31 11.0	61 1.0	+0.84	9.993 1062	439	7 51	15 58
15	960.5	5 32 39.08	262 32 12.0	61 1.5	+0.98	9.993 0623	411	7 52	15 58
16	961.5	5 36 35.64	263 33 13.5	61 2.2	+1.10	9.993 0212	383	7 52	15 58
17	962.5	5 40 32.20	264 34 15.7	61 2.9	+1.20	9.992 9829	355	7 53	15 59
18	963.5	5 44 28.76	265 35 18.6	61 3.6	+1.27	9.992 9474	326	7 54	15 59
19	964.5	5 48 25.32	266 36 22.2	61 4.3	+1.32	9.992 9148	298	7 55	15 59
20	965.5	5 52 21.88	267 37 26.5	61 5.1	+1.33	9.992 8850	272	7 55	16 0
21	966.5	5 56 18.44	268 38 31.6	61 5.9	+1.32	9.992 8578	247	7 56	16 0
22	967.5	6 0 14.99	269 39 37.5	61 6.6	+1.27	9.992 8331	224	7 56	16 1
23	968.5	6 4 11.55	270 40 44.1	61 7.4	+1.20	9.992 8107	201	7 57	16 1
24	969.5	6 8 8.11	271 41 51.5	61 8.0	+1.10	9.992 7906	180	7 57	16 2
25	970.5	6 12 4.67	272 42 59.5	61 8.6	+0.98	9.992 7726	160	7 58	16 3
26	971.5	6 16 1.23	273 44 8.1	61 9.1	+0.85	9.992 7566	141	7 58	16 3
27	972.5	6 19 57.79	274 45 17.2	61 9.6	+0.72	9.992 7425	123	7 58	16 4
28	973.5	6 23 54.35	275 46 26.8	61 9.9	+0.60	9.992 7302	105	7 58	16 5
29	974.5	6 27 50.91	276 47 36.7	61 10.2	+0.49	9.992 7197	88	7 59	16 6
30	975.5	6 31 47.47	277 48 46.9	61 10.4	+0.40	9.992 7109	70	7 59	16 6
31	976.5	6 35 44.03	278 49 57.3	61 10.5	+0.33	9.992 7039	53	7 59	16 7
32	977.5	6 39 40.58	279 51 7.8		+0.27	9.992 6986		7 59	16 8

Welt-Zeit		Mittleres Äquinoktium 1929.0								
		X		Red. auf 1925.0	*Y*		Red. auf 1925.0	*Z*		Red. auf 1925.0
1929	h									
Jan. 0	0	+0.155 3477	8 6273	−9465	−0.890 7419	1 3055	−1384	−0.386 3504	5661	− 602
0	12	0.163 9750	8 6151		0.889 4364	1 3746		0.385 7843	5961	
1	0	0.172 5901	8 6021	9436	0.888 0618	1 4435	1539	0.385 1882	6260	669
1	12	0.181 1922	8 5885		0.886 6183	1 5124		0.384 5622	6559	
2	0	0.189 7807	8 5739	9405	0.885 1059	1 5815	1692	0.383 9063	6858	736
2	12	0.198 3546	8 5590		0.883 5244	1 6503		0.383 2205	7156	
3	0	+0.206 9136	8 5432	−9371	−0.881 8741	1 7190	−1845	−0.382 5049	7454	− 802
3	12	0.215 4568	8 5269		0.880 1551	1 7876		0.381 7595	7750	
4	0	0.223 9837	8 5097	9333	0.878 3675	1 8561	1998	0.380 9845	8048	869
4	12	0.232 4934	8 4919		0.876 5114	1 9245		0.380 1797	8345	
5	0	0.240 9853	8 4735	9293	0.874 5869	1 9930	2150	0.379 3452	8641	935
5	12	0.249 4588	8 4544		0.872 5939	2 0609		0.378 4811	8935	
6	0	+0.257 9132	8 4345	−9250	−0.870 5330	2 1289	−2301	−0.377 5876	9231	−1001
6	12	0.266 3477	8 4140		0.868 4041	2 1968		0.376 6645	9525	
7	0	0.274 7617	8 3927	9204	0.866 2073	2 2645	2452	0.375 7120	9820	1067
7	12	0.283 1544	8 3709		0.863 9428	2 3319		0.374 7300	1 0112	
8	0	0.291 5253	8 3483	9155	0.861 6109	2 3994	2602	0.373 7188	1 0403	1132
8	12	0.299 8736	8 3251		0.859 2115	2 4665		0.372 6785	1 0695	
9	0	+0.308 1987	8 3010	−9103	−0.856 7450	2 5336	−2751	−0.371 6090	1 0986	−1197
9	12	0.316 4997	8 2765		0.854 2114	2 6003		0.370 5104	1 1276	
10	0	0.324 7762	8 2512	9049	0.851 6111	2 6668	2899	0.369 3828	1 1565	1261
10	12	0.333 0274	8 2252		0.848 9443	2 7332		0.368 2263	1 1853	
11	0	0.341 2526	8 1985	8992	0.846 2111	2 7992	3046	0.367 0410	1 2140	1325
11	12	0.349 4511	8 1712		0.843 4119	2 8652		0.365 8270	1 2425	
12	0	+0.357 6223	8 1431	−8932	−0.840 5467	2 9309	−3193	−0.364 5845	1 2711	−1389
12	12	0.365 7654	8 1145		0.837 6158	2 9962		0.363 3134	1 2995	
13	0	0.373 8799	8 0851	8869	0.834 6196	3 0614	3338	0.362 0139	1 3278	1452
13	12	0.381 9650	8 0551		0.831 5582	3 1262		0.360 6861	1 3560	
14	0	0.390 0201	8 0245	8803	0.828 4320	3 1908	3483	0.359 3301	1 3840	1515
14	12	0.398 0446	7 9932		0.825 2412	3 2552		0.357 9461	1 4119	
15	0	+0.406 0378	7 9612	−8735	−0.821 9860	3 3191	−3626	−0.356 5342	1 4398	−1577
15	12	0.413 9990	7 9288		0.818 6669	3 3828		0.355 0944	1 4673	
16	0	0.421 9278	7 8954	8664	0.815 2841	3 4462	3768	0.353 6271	1 4949	1639
16	12	0.429 8232	7 8617		0.811 8379	3 5092		0.352 1322	1 5224	
17	0	0.437 6849	7 8272	8590	0.808 3287	3 5720	3909	0.350 6098	1 5496	1700
17	12	0.445 5121	7 7922		0.804 7567	3 6343		0.349 0602	1 5766	
18	0	+0.453 3043	7 7567	−8514	−0.801 1224	3 6965	−4049	−0.347 4836	1 6036	−1761
18	12	0.461 0610	7 7204		0.797 4259	3 7582		0.345 8800	1 6304	
19	0	0.468 7814	7 6837	8435	0.793 6677	3 8197	4187	0.344 2496	1 6570	1821
19	12	0.476 4651	7 6463		0.789 8480	3 8806		0.342 5926	1 6835	
20	0	0.484 1114	7 6084	−8353	0.785 9674	3 9414	−4324	0.340 9091	1 7100	−1880
20	12	+0.491 7198			−0.782 0260			−0.339 1991		

Welt-Zeit		Mittleres Äquinoktium 1929.0								
		X		Red. auf 1925.0	Y		Red. auf 1925.0	Z		Red. auf 1925.0
1929	h									
Jan. 20	12	+0.491 7198	7 5701		−0.782 0260	4 0018		−0.339 1991	1 7361	
21	0	0.499 2899	7 5310	−8268	0.778 0242	4 0619	−4460	0.337 4630	1 7621	−1939
21	12	0.506 8209	7 4917		0.773 9623	4 1214		0.335 7009	1 7880	
22	0	0.514 3126	7 4515	8181	0.769 8409	4 1808	4594	0.333 9129	1 8138	1997
22	12	0.521 7641	7 4110		0.765 6601	4 2398		0.332 0991	1 8393	
23	0	0.529 1751	7 3699	8092	0.761 4203	4 2985	4727	0.330 2598	1 8647	2055
23	12	+0.536 5450	7 3284		−0.757 1218	4 3567		−0.328 3951	1 8900	
24	0	0.543 8734	7 2864	−8000	0.752 7651	4 4148	−4858	0.326 5051	1 9151	−2112
24	12	0.551 1598	7 2438		0.748 3503	4 4724		0.324 5900	1 9401	
25	0	0.558 4036	7 2007	7906	0.743 8779	4 5298	4988	0.322 6499	1 9648	2169
25	12	0.565 6043	7 1572		0.739 3481	4 5867		0.320 6851	1 9895	
26	0	0.572 7615	7 1131	7809	0.734 7614	4 6434	5116	0.318 6956	2 0142	2225
26	12	+0.579 8746	7 0686		−0.730 1180	4 6998		−0.316 6814	2 0385	
27	0	0.586 9432	7 0235	−7710	0.725 4182	4 7558	−5243	0.314 6429	2 0627	−2280
27	12	0.593 9667	6 9779		0.720 6624	4 8114		0.312 5802	2 0869	
28	0	0.600 9446	6 9317	7608	0.715 8510	4 8668	5368	0.310 4933	2 1108	2334
28	12	0.607 8763	6 8851		0.710 9842	4 9217		0.308 3825	2 1347	
29	0	0.614 7614	6 8378	7504	0.706 0625	4 9763	5492	0.306 2478	2 1583	2388
29	12	+0.621 5992	6 7903		−0.701 0862	5 0306		−0.304 0895	2 1818	
30	0	0.628 3895	6 7420	−7398	0.696 0556	5 0846	−5614	0.301 9077	2 2052	−2441
30	12	0.635 1315	6 6932		0.690 9710	5 1383		0.299 7025	2 2284	
31	0	0.641 8247	6 6439	7289	0.685 8327	5 1914	5734	0.297 4741	2 2514	2493
31	12	0.648 4686	6 5942		0.680 6413	5 2441		0.295 2227	2 2744	
Febr. 1	0	0.655 0628	6 5438	7179	0.675 3972	5 2967	5852	0.292 9483	2 2971	2545
1	12	+0.661 6066	6 4930		−0.670 1005	5 3486		−0.290 6512	2 3196	
2	0	0.668 0996	6 4417	−7066	0.664 7519	5 4003	−5969	0.288 3316	2 3420	−2595
2	12	0.674 5413	6 3897		0.659 3516	5 4514		0.285 9896	2 3642	
3	0	0.680 9310	6 3373	6950	0.653 9002	5 5023	6083	0.283 6254	2 3862	2646
3	12	0.687 2683	6 2843		0.648 3979	5 5526		0.281 2392	2 4081	
4	0	0.693 5526	6 2310	6833	0.642 8453	5 6027	6196	0.278 8311	2 4297	2695
4	12	+0.699 7836	6 1770		−0.637 2426	5 6521		−0.276 4014	2 4513	
5	0	0.705 9606	6 1226	−6713	0.631 5905	5 7011	−6307	0.273 9501	2 4726	−2743
5	12	0.712 0832	6 0677		0.625 8894	5 7497		0.271 4775	2 4937	
6	0	0.718 1509	6 0124	6592	0.620 1397	5 7980	6416	0.268 9838	2 5145	2790
6	12	0.724 1633	5 9564		0.614 3417	5 8456		0.266 4693	2 5353	
7	0	0.730 1197	5 9000	6468	0.608 4961	5 8928	6523	0.263 9340	2 5557	2837
7	12	+0.736 0197	5 8431		−0.602 6033	5 9396		−0.261 3783	2 5761	
8	0	0.741 8628	5 7859	−6343	0.596 6637	5 9858	−6628	0.258 8022	2 5962	−2882
8	12	0.747 6487	5 7280		0.590 6779	6 0316		0.256 2060	2 6161	
9	0	0.753 3767	5 6699	6215	0.584 6463	6 0769	6731	0.253 5899	2 6357	2927
9	12	0.759 0466	5 6110		0.578 5694	6 1217		0.250 9542	2 6553	
10	0	+0.764 6576		−6085	−0.572 4477		−6832	−0.248 2989		−2971

Welt-Zeit		Mittleres Äquinoktium 1929.0								
		X	Diff.	Red. auf 1925.0	Y	Diff.	Red. auf 1925.0	Z	Diff.	Red. auf 1925.0
1929 Febr. 10	0h	+0.764 6576	5 5519	−6085	−0.572 4477	6 1660	−6832	−0.248 2989	2 6744	−2971
10	12	0.770 2095	5 4922		0.566 2817	6 2096		0.245 6245	2 6935	
11	0	0.775 7017	5 4323	5954	0.560 0721	6 2529	6931	0.242 9310	2 7122	3013
11	12	0.781 1340	5 3718		0.553 8192	6 2955		0.240 2188	2 7308	
12	0	0.786 5058	5 3110	5821	0.547 5237	6 3377	7027	0.237 4880	2 7490	3055
12	12	0.791 8168	5 2496		0.541 1860	6 3793		0.234 7390	2 7671	
13	0	+0.797 0664	5 1880	−5686	−0.534 8067	6 4203	−7122	−0.231 9719	2 7850	−3097
13	12	0.802 2544	5 1260		0.528 3864	6 4609		0.229 1869	2 8026	
14	0	0.807 3804	5 0636	5549	0.521 9255	6 5008	7214	0.226 3843	2 8200	3137
14	12	0.812 4440	5 0008		0.515 4247	6 5402		0.223 5643	2 8370	
15	0	0.817 4448	4 9377	5410	0.508 8845	6 5790	7304	0.220 7273	2 8539	3176
15	12	0.822 3825	4 8743		0.502 3055	6 6173		0.217 8734	2 8706	
16	0	+0.827 2568	4 8106	−5270	−0.495 6882	6 6551	−7392	−0.215 0028	2 8870	−3214
16	12	0.832 0674	4 7464		0.489 0331	6 6923		0.212 1158	2 9031	
17	0	0.836 8138	4 6821	5128	0.482 3408	6 7288	7478	0.209 2127	2 9189	3252
17	12	0.841 4959	4 6175		0.475 6120	6 7649		0.206 2938	2 9346	
18	0	0.846 1134	4 5525	4985	0.468 8471	6 8004	7561	0.203 3592	2 9499	3288
18	12	0.850 6659	4 4873		0.462 0467	6 8355		0.200 4093	2 9651	
19	0	+0.855 1532	4 4217	−4840	−0.455 2112	6 8699	−7642	−0.197 4442	2 9801	−3323
19	12	0.859 5749	4 3560		0.448 3413	6 9039		0.194 4641	2 9948	
20	0	0.863 9309	4 2901	4694	0.441 4374	6 9372	7721	0.191 4693	3 0092	3357
20	12	0.868 2210	4 2237		0.434 5002	6 9700		0.188 4601	3 0234	
21	0	0.872 4447	4 1573	4546	0.427 5302	7 0023	7797	0.185 4367	3 0374	3390
21	12	0.876 6020	4 0905		0.420 5279	7 0342		0.182 3993	3 0512	
22	0	+0.880 6925	4 0235	−4397	−0.413 4937	7 0654	−7871	−0.179 3481	3 0646	−3423
22	12	0.884 7160	3 9562		0.406 4283	7 0963		0.176 2835	3 0780	
23	0	0.888 6722	3 8888	4247	0.399 3320	7 1264	7942	0.173 2055	3 0910	3454
23	12	0.892 5610	3 8210		0.392 2056	7 1563		0.170 1145	3 1040	
24	0	0.896 3820	3 7531	4095	0.385 0493	7 1855	8011	0.167 0105	3 1166	3484
24	12	0.900 1351	3 6847		0.377 8638	7 2142		0.163 8939	3 1290	
25	0	+0.903 8198	3 6163	−3942	−0.370 6496	7 2424	−8077	−0.160 7649	3 1411	−3513
25	12	0.907 4361	3 5476		0.363 4072	7 2701		0.157 6238	3 1532	
26	0	0.910 9837	3 4786	3788	0.356 1371	7 2973	8141	0.154 4706	3 1650	3541
26	12	0.914 4623	3 4093		0.348 8398	7 3240		0.151 3056	3 1765	
27	0	0.917 8716	3 3398	3633	0.341 5158	7 3501	8203	0.148 1291	3 1877	3567
27	12	0.921 2114	3 2701		0.334 1657	7 3756		0.144 9414	3 1988	
28	0	+0.924 4815	3 2001	−3477	−0.326 7901	7 4007	−8262	−0.141 7426	3 2097	−3593
28	12	0.927 6816	3 1299		0.319 3894	7 4253		0.138 5329	3 2203	
März 1	0	0.930 8115	3 0594	3319	0.311 9641	7 4492	8319	0.135 3126	3 2307	3618
1	12	0.933 8709	2 9886		0.304 5149	7 4726		0.132 0819	3 2409	
2	0	0.936 8595	2 9177	−3160	0.297 0423	7 4955	−8373	0.128 8410	3 2508	−3642
2	12	+0.939 7772			−0.289 5468			−0.125 5902		

Welt-Zeit		Mittleres Äquinoktium 1929.0								
		X		Red. auf 1925.0	*Y*		Red. auf 1925.0	*Z*		Red. auf 1925.0
1929 März 2	12h	+0.939 7772	2 8466		−0.289 5468	7 5177		−0.125 5902	3 2604	
3	0	0.942 6238	2 7751	−3000	0.282 0291	7 5393	−8425	0.122 3298	3 2698	−3664
3	12	0.945 3989	2 7034		0.274 4898	7 5606		0.119 0600	3 2791	
4	0	0.948 1023	2 6317	2840	0.266 9292	7 5812	8474	0.115 7809	3 2880	3686
4	12	0.950 7340	2 5597		0.259 3480	7 6011		0.112 4929	3 2968	
5	0	0.953 2937	2 4874	2679	0.251 7469	7 6206	8520	0.109 1961	3 3051	3706
5	12	+0.955 7811	2 4150		−0.244 1263	7 6394		−0.105 8910	3 3133	
6	0	0.958 1961	2 3423	−2517	0.236 4869	7 6575	−8564	0.102 5777	3 3212	−3725
6	12	0.960 5384	2 2695		0.228 8294	7 6752		0.099 2565	3 3289	
7	0	0.962 8079	2 1965	2354	0.221 1542	7 6923	8605	0.095 9276	3 3363	3743
7	12	0.965 0044	2 1233		0.213 4619	7 7087		0.092 5913	3 3435	
8	0	0.967 1277	2 0499	2190	0.205 7532	7 7245	8644	0.089 2478	3 3504	3759
8	12	+0.969 1776	1 9765		−0.198 0287	7 7398		−0.085 8974	3 3571	
9	0	0.971 1541	1 9028	−2026	0.190 2889	7 7544	−8680	0.082 5403	3 3634	−3775
9	12	0.973 0569	1 8290		0.182 5345	7 7684		0.079 1769	3 3696	
10	0	0.974 8859	1 7550	1861	0.174 7661	7 7817	8713	0.075 8073	3 3753	3789
10	12	0.976 6409	1 6810		0.166 9844	7 7945		0.072 4320	3 3808	
11	0	0.978 3219	1 6068	1696	0.159 1899	7 8065	8744	0.069 0512	3 3862	3803
11	12	+0.979 9287	1 5324		−0.151 3834	7 8180		−0.065 6650	3 3912	
12	0	0.981 4611	1 4581	−1530	0.143 5654	7 8288	−8772	0.062 2738	3 3959	−3815
12	12	0.982 9192	1 3836		0.135 7366	7 8389		0.058 8779	3 4004	
13	0	0.984 3028	1 3091	1364	0.127 8977	7 8485	8797	0.055 4775	3 4045	3826
13	12	0.985 6119	1 2345		0.120 0492	7 8574		0.052 0730	3 4085	
14	0	0.986 8464	1 1599	1197	0.112 1918	7 8656	8820	0.048 6645	3 4120	3836
14	12	+0.988 0063	1 0852		−0.104 3262	7 8733		−0.045 2525	3 4153	
15	0	0.989 0915	1 0104	−1030	0.096 4529	7 8802	−8840	0.041 8372	3 4183	−3845
15	12	0.990 1019	9358		0.088 5727	7 8866		0.038 4189	3 4211	
16	0	0.991 0377	8612	862	0.080 6861	7 8922	8858	0.034 9978	3 4236	3852
16	12	0.991 8989	7864		0.072 7939	7 8974		0.031 5742	3 4258	
17	0	0.992 6853	7118	694	0.064 8965	7 9020	8873	0.028 1484	3 4277	3859
17	12	+0.993 3971	6371		−0.056 9945	7 9058		−0.024 7207	3 4294	
18	0	0.994 0342	5626	− 527	0.049 0887	7 9091	−8885	0.021 2913	3 4308	−3864
18	12	0.994 5968	4880		0.041 1796	7 9119		0.017 8605	3 4319	
19	0	0.995 0848	4134	359	0.033 2677	7 9138	8894	0.014 4286	3 4329	3868
19	12	0.995 4982	3391		0.025 3539	7 9154		0.010 9957	3 4335	
20	0	0.995 8373	2645	190	0.017 4385	7 9164	8901	0.007 5622	3 4339	3871
20	12	+0.996 1018	1903		−0.009 5221	7 9168		−0.004 1283	3 4339	
21	0	0.996 2921	1160	− 22	−0.001 6053	7 9165	−8905	−0.000 6944	3 4339	−3873
21	12	0.996 4081	418		+0.006 3112	7 9158		+0.002 7395	3 4335	
22	0	0.996 4499	324	+ 146	0.014 2270	7 9145	8907	0.006 1730	3 4328	3874
22	12	0.996 4175	1065		0.022 1415	7 9126		0.009 6058	3 4319	
23	0	+0.996 3110		+ 315	+0.030 0541		−8906	+0.013 0377		−3873

Welt-Zeit		Mittleres Äquinoktium 1929.0								
		X		Red. auf 1925.0	Y		Red. auf 1925.0	Z		Red. auf 1925.0
1929	h									
März 23	0	+0.996 3110	1805	+ 315	+0.030 0541	7 9102	−8906	+0.013 0377	3 4309	−3873
23	12	0.996 1305	2545		0.037 9643	7 9073		0.016 4686	3 4297	
24	0	0.995 8760	3284	483	0.045 8716	7 9037	8902	0.019 8983	3 4281	3871
24	12	0.995 5476	4022		0.053 7753	7 8998		0.023 3264	3 4262	
25	0	0.995 1454	4760	650	0.061 6751	7 8950	8895	0.026 7526	3 4242	3868
25	12	0.994 6694	5498		0.069 5701	7 8900		0.030 1768	3 4220	
26	0	+0.994 1196	6234	+ 818	+0.077 4601	7 8844	−8886	+0.033 5988	3 4195	−3864
26	12	0.993 4962	6969		0.085 3445	7 8781		0.037 0183	3 4168	
27	0	0.992 7993	7705	986	0.093 2226	7 8712	8874	0.040 4351	3 4138	3859
27	12	0.992 0288	8440		0.101 0938	7 8640		0.043 8489	3 4106	
28	0	0.991 1848	9174	1153	0.108 9578	7 8561	8860	0.047 2595	3 4072	3853
28	12	0.990 2674	9907		0.116 8139	7 8477		0.050 6667	3 4035	
29	0	+0.989 2767	1 0640	+1320	+0.124 6616	7 8387	−8843	+0.054 0702	3 3996	−3845
29	12	0.988 2127	1 1372		0.132 5003	7 8291		0.057 4698	3 3955	
30	0	0.987 0755	1 2103	1486	0.140 3294	7 8191	8823	0.060 8653	3 3912	3837
30	12	0.985 8652	1 2833		0.148 1485	7 8084		0.064 2565	3 3866	
31	0	0.984 5819	1 3562	1652	0.155 9569	7 7970	8801	0.067 6431	3 3816	3827
31	12	0.983 2257	1 4291		0.163 7539	7 7853		0.071 0247	3 3765	
April 1	0	+0.981 7966	1 5018	+1818	+0.171 5392	7 7729	−8776	+0.074 4012	3 3711	−3816
1	12	0.980 2948	1 5744		0.179 3121	7 7600		0.077 7723	3 3656	
2	0	0.978 7204	1 6469	1983	0.187 0721	7 7464	8749	0.081 1379	3 3598	3805
2	12	0.977 0735	1 7193		0.194 8185	7 7323		0.084 4977	3 3537	
3	0	0.975 3542	1 7915	2147	0.202 5508	7 7176	8719	0.087 8514	3 3472	3792
3	12	0.973 5627	1 8637		0.210 2684	7 7025		0.091 1986	3 3407	
4	0	+0.971 6990	1 9357	+2311	+0.217 9709	7 6865	−8686	+0.094 5393	3 3339	−3777
4	12	0.969 7633	2 0077		0.225 6574	7 6703		0.097 8732	3 3269	
5	0	0.967 7556	2 0794	2474	0.233 3277	7 6531	8651	0.101 2001	3 3196	3762
5	12	0.965 6762	2 1509		0.240 9808	7 6356		0.104 5197	3 3120	
6	0	0.963 5253	2 2224	2636	0.248 6164	7 6176	8613	0.107 8317	3 3040	3746
6	12	0.961 3029	2 2937		0.256 2340	7 5988		0.111 1357	3 2960	
7	0	+0.959 0092	2 3647	+2798	+0.263 8328	7 5794	−8573	+0.114 4317	3 2877	−3728
7	12	0.956 6445	2 4356		0.271 4122	7 5595		0.117 7194	3 2790	
8	0	0.954 2089	2 5064	2959	0.278 9717	7 5390	8530	0.120 9984	3 2701	3710
8	12	0.951 7025	2 5768		0.286 5107	7 5179		0.124 2685	3 2611	
9	0	0.949 1257	2 6470	3119	0.294 0286	7 4961	8485	0.127 5296	3 2517	3690
9	12	0.946 4787	2 7172		0.301 5247	7 4740		0.130 7813	3 2420	
10	0	+0.943 7615	2 7870	+3278	+0.308 9987	7 4509	−8437	+0.134 0233	3 2321	−3669
10	12	0.940 9745	2 8564		0.316 4496	7 4276		0.137 2554	3 2221	
11	0	0.938 1181	2 9257	3436	0.323 8772	7 4034	8387	0.140 4775	3 2116	3647
11	12	0.935 1924	2 9948		0.331 2806	7 3789		0.143 6891	3 2009	
12	0	0.932 1976	3 0636	+3593	0.338 6595	7 3537	−8334	0.146 8900	3 1900	−3624
12	12	+0.929 1340			+0.346 0132			+0.150 0800		

Welt-Zeit		Mittleres Äquinoktium 1929.0 X		Red. auf 1925.0	Y		Red. auf 1925.0	Z		Red. auf 1925.0
1929	h									
April 12	12	+0.929 1340	3 1319		+0.346 0132	7 3280		+0.150 0800	3 1788	
13	0	0.926 0021	3 2000	+3749	0.353 3412	7 3016	−8279	0.153 2588	3 1674	−3600
13	12	0.922 8021	3 2678		0.360 6428	7 2748		0.156 4262	3 1557	
14	0	0.919 5343	3 3352	3904	0.367 9176	7 2475	8221	0.159 5819	3 1438	3575
14	12	0.916 1991	3 4024		0.375 1651	7 2196		0.162 7257	3 1318	
15	0	0.912 7967	3 4691	4058	0.382 3847	7 1912	8161	0.165 8575	3 1194	3549
15	12	+0.909 3276	3 5357		+0.389 5759	7 1624		+0.168 9769	3 1068	
16	0	0.905 7919	3 6017	+4211	0.396 7383	7 1329	−8099	0.172 0837	3 0940	−3522
16	12	0.902 1902	3 6676		0.403 8712	7 1031		0.175 1777	3 0811	
17	0	0.898 5226	3 7331	4362	0.410 9743	7 0726	8034	0.178 2588	3 0678	3494
17	12	0.894 7895	3 7981		0.418 0469	7 0419		0.181 3266	3 0544	
18	0	0.890 9914	3 8630	4512	0.425 0888	7 0105	7967	0.184 3810	3 0408	3464
18	12	+0.887 1284	3 9273		+0.432 0993	6 9788		+0.187 4218	3 0269	
19	0	0.883 2011	3 9914	+4661	0.439 0781	6 9465	−7897	0.190 4487	3 0130	−3434
19	12	0.879 2097	4 0552		0.446 0246	6 9139		0.193 4617	2 9988	
20	0	0.875 1545	4 1186	4808	0.452 9385	6 8807	7825	0.196 4605	2 9843	3403
20	12	0.871 0359	4 1817		0.459 8192	6 8471		0.199 4448	2 9697	
21	0	0.866 8542	4 2444	4954	0.466 6663	6 8131	7751	0.202 4145	2 9549	3371
21	12	+0.862 6098	4 3070		+0.473 4794	6 7787		+0.205 3694	2 9399	
22	0	0.858 3028	4 3690	+5099	0.480 2581	6 7437	−7674	0.208 3093	2 9248	−3338
22	12	0.853 9338	4 4307		0.487 0018	6 7085		0.211 2341	2 9095	
23	0	0.849 5031	4 4921	5242	0.493 7103	6 6726	7596	0.214 1436	2 8939	3303
23	12	0.845 0110	4 5533		0.500 3829	6 6365		0.217 0375	2 8781	
24	0	0.840 4577	4 6141	5383	0.507 0194	6 5998	7515	0.219 9156	2 8622	3268
24	12	+0.835 8436	4 6745		+0.513 6192	6 5627		+0.222 7778	2 8462	
25	0	0.831 1691	4 7346	+5523	0.520 1819	6 5251	−7432	0.225 6240	2 8299	−3232
25	12	0.826 4345	4 7944		0.526 7070	6 4872		0.228 4539	2 8135	
26	0	0.821 6401	4 8537	5662	0.533 1942	6 4488	7347	0.231 2674	2 7968	3195
26	12	0.816 7864	4 9130		0.539 6430	6 4100		0.234 0642	2 7799	
27	0	0.811 8734	4 9716	5798	0.546 0530	6 3708	7259	0.236 8441	2 7629	3157
27	12	+0.806 9018	5 0301		+0.552 4238	6 3309		+0.239 6070	2 7457	
28	0	0.801 8717	5 0881	+5933	0.558 7547	6 2909	−7170	0.242 3527	2 7283	−3119
28	12	0.796 7836	5 1459		0.565 0456	6 2503		0.245 0810	2 7108	
29	0	0.791 6377	5 2031	6067	0.571 2959	6 2091	7078	0.247 7918	2 6929	3079
29	12	0.786 4346	5 2600		0.577 5050	6 1677		0.250 4847	2 6750	
30	0	0.781 1746	5 3169	6198	0.583 6727	6 1258	6985	0.253 1597	2 6568	3038
30	12	+0.775 8577	5 3731		+0.589 7985	6 0835		+0.255 8165	2 6385	
Mai 1	0	0.770 4846	5 4288	+6328	0.595 8820	6 0406	−6890	0.258 4550	2 6199	−2996
1	12	0.765 0558	5 4844		0.601 9226	5 9975		0.261 0749	2 6013	
2	0	0.759 5714	5 5395	6456	0.607 9201	5 9538	6792	0.263 6762	2 5825	2954
2	12	0.754 0319	5 5942		0.613 8739	5 9097		0.266 2587	2 5633	
3	0	+0.748 4377		+6582	+0.619 7836		−6693	+0.268 8220		−2911

Welt-Zeit		Mittleres Äquinoktium 1929.0								
		X		Red. auf 1925.0	*Y*		Red. auf 1925.0	*Z*		Red. auf 1925.0
1929										
Mai 3	0h	+0.748 4377	5 6485	+6582	+0.619 7836	5 8652	−6693	+0.268 8220	2 5439	−2911
3	12	0.742 7892	5 7025		0.625 6488	5 8202		0.271 3659	2 5246	
4	0	0.737 0867	5 7559	6706	0.631 4690	5 7747	6591	0.273 8905	2 5049	2867
4	12	0.731 3308	5 8091		0.637 2437	5 7290		0.276 3954	2 4851	
5	0	0.725 5217	5 8618	6828	0.642 9727	5 6828	6488	0.278 8805	2 4651	2822
5	12	0.719 6599	5 9141		0.648 6555	5 6360		0.281 3456	2 4448	
6	0	+0.713 7458	5 9659	+6948	+0.654 2915	5 5889	−6383	+0.283 7904	2 4243	−2776
6	12	0.707 7799	6 0174		0.659 8804	5 5412		0.286 2147	2 4038	
7	0	0.701 7625	6 0682	7066	0.665 4216	5 4933	6276	0.288 6185	2 3829	2730
7	12	0.695 6943	6 1187		0.670 9149	5 4449		0.291 0014	2 3620	
8	0	0.689 5756	6 1687	7183	0.676 3598	5 3959	6167	0.293 3634	2 3409	2682
8	12	0.683 4069	6 2183		0.681 7557	5 3467		0.295 7043	2 3195	
9	0	+0.677 1886	6 2671	+7297	+0.687 1024	5 2970	−6056	+0.298 0238	2 2979	−2634
9	12	0.670 9215	6 3157		0.692 3994	5 2470		0.300 3217	2 2761	
10	0	0.664 6058	6 3636	7409	0.697 6464	5 1965	5944	0.302 5978	2 2543	2585
10	12	0.658 2422	6 4110		0.702 8429	5 1455		0.304 8521	2 2322	
11	0	0.651 8312	6 4579	7519	0.707 9884	5 0944	5830	0.307 0843	2 2101	2535
11	12	0.645 3733	6 5044		0.713 0828	5 0429		0.309 2944	2 1876	
12	0	+0.638 8689	6 5502	+7627	+0.718 1257	4 9909	−5714	+0.311 4820	2 1650	−2485
12	12	0.632 3187	6 5954		0.723 1166	4 9387		0.313 6470	2 1424	
13	0	0.625 7233	6 6402	7732	0.728 0553	4 8861	5597	0.315 7894	2 1195	2434
13	12	0.619 0831	6 6844		0.732 9414	4 8333		0.317 9089	2 0966	
14	0	0.612 3987	6 7280	7836	0.737 7747	4 7800	5478	0.320 0055	2 0734	2382
14	12	0.605 6707	6 7711		0.742 5547	4 7265		0.322 0789	2 0502	
15	0	+0.598 8996	6 8138	+7937	+0.747 2812	4 6727	−5357	+0.324 1291	2 0268	−2330
15	12	0.592 0858	6 8558		0.751 9539	4 6187		0.326 1559	2 0033	
16	0	0.585 2300	6 8973	8036	0.756 5726	4 5644	5235	0.328 1592	1 9797	2277
16	12	0.578 3327	6 9383		0.761 1370	4 5098		0.330 1389	1 9560	
17	0	0.571 3944	6 9787	8132	0.765 6468	4 4549	5111	0.332 0949	1 9322	2223
17	12	0.564 4157	7 0187		0.770 1017	4 3998		0.334 0271	1 9082	
18	0	+0.557 3970	7 0581	+8226	+0.774 5015	4 3445	−4986	+0.335 9353	1 8842	−2169
18	12	0.550 3389	7 0971		0.778 8460	4 2888		0.337 8195	1 8600	
19	0	0.543 2418	7 1354	8318	0.783 1348	4 2328	4860	0.339 6795	1 8357	2114
19	12	0.536 1064	7 1733		0.787 3676	4 1768		0.341 5152	1 8114	
20	0	0.528 9331	7 2107	8407	0.791 5444	4 1204	4732	0.343 3266	1 7869	2058
20	12	0.521 7224	7 2475		0.795 6648	4 0638		0.345 1135	1 7623	
21	0	+0.514 4749	7 2839	+8494	+0.799 7286	4 0070	−4603	+0.346 8758	1 7376	−2002
21	12	0.507 1910	7 3198		0.803 7356	3 9498		0.348 6134	1 7128	
22	0	0.499 8712	7 3551	8579	0.807 6854	3 8925	4472	0.350 3262	1 6880	1945
22	12	0.492 5161	7 3901		0.811 5779	3 8349		0.352 0142	1 6631	
23	0	0.485 1260	7 4243	+8661	0.815 4128	3 7772	−4340	0.353 6773	1 6379	−1888
23	12	+0.477 7017			+0.819 1900			+0.355 3152		

Welt-Zeit		Mittleres Äquinoktium 1929.0								
		X		Red. auf 1925.0	*Y*		Red. auf 1925.0	*Z*		Red. auf 1925.0
1929 Mai 23	12h	+0.477 7017	7 4582		+0.819 1900	3 7190		+0.355 3152	1 6128	
24	0	0.470 2435	7 4916	+8741	0.822 9090	3 6607	−4207	0.356 9280	1 5875	−1830
24	12	0.462 7519	7 5245		0.826 5697	3 6022		0.358 5155	1 5621	
25	0	0.455 2274	7 5567	8818	0.830 1719	3 5435	4073	0.360 0776	1 5366	1771
25	12	0.447 6707	7 5885		0.833 7154	3 4844		0.361 6142	1 5111	
26	0	0.440 0822	7 6199	8893	0.837 1998	3 4253	3938	0.363 1253	1 4854	1712
26	12	+0.432 4623	7 6507		+0.840 6251	3 3658		+0.364 6107	1 4597	
27	0	0.424 8116	7 6809	+8965	0.843 9909	3 3061	−3801	0.366 0704	1 4338	−1653
27	12	0.417 1307	7 7108		0.847 2970	3 2462		0.367 5042	1 4078	
28	0	0.409 4199	7 7399	9035	0.850 5432	3 1860	3664	0.368 9120	1 3817	1593
28	12	0.401 6800	7 7688		0.853 7292	3 1256		0.370 2937	1 3556	
29	0	0.393 9112	7 7969	9102	0.856 8548	3 0651	3525	0.371 6493	1 3294	1533
29	12	+0.386 1143	7 8245		+0.859 9199	3 0042		+0.372 9787	1 3031	
30	0	0.378 2898	7 8518	+9167	0.862 9241	2 9432	−3386	0.374 2818	1 2766	−1472
30	12	0.370 4380	7 8783		0.865 8673	2 8819		0.375 5584	1 2501	
31	0	0.362 5597	7 9044	9229	0.868 7492	2 8204	3245	0.376 8085	1 2234	1411
31	12	0.354 6553	7 9300		0.871 5696	2 7587		0.378 0319	1 1967	
Juni 1	0	0.346 7253	7 9548	9288	0.874 3283	2 6968	3104	0.379 2286	1 1699	1350
1	12	+0.338 7705	7 9793		+0.877 0251	2 6347		+0.380 3985	1 1430	
2	0	0.330 7912	8 0032	+9345	0.879 6598	2 5724	−2961	0.381 5415	1 1159	−1288
2	12	0.322 7880	8 0266		0.882 2322	2 5096		0.382 6574	1 0889	
3	0	0.314 7614	8 0492	9399	0.884 7418	2 4470	2818	0.383 7463	1 0617	1226
3	12	0.306 7122	8 0714		0.887 1888	2 3841		0.384 8080	1 0344	
4	0	0.298 6408	8 0928	9450	0.889 5729	2 3209	2674	0.385 8424	1 0069	1163
4	12	+0.290 5480	8 1140		+0.891 8938	2 2575		+0.386 8493	9795	
5	0	0.282 4340	8 1342	+9499	0.894 1513	2 1938	−2529	0.387 8288	9519	−1100
5	12	0.274 2998	8 1541		0.896 3451	2 1300		0.388 7807	9243	
6	0	0.266 1457	8 1730	9545	0.898 4751	2 0662	2383	0.389 7050	8966	1036
6	12	0.257 9727	8 1916		0.900 5413	2 0021		0.390 6016	8688	
7	0	0.249 7811	8 2094	9588	0.902 5434	1 9379	2237	0.391 4704	8409	973
7	12	+0.241 5717	8 2267		+0.904 4813	1 8735		+0.392 3113	8129	
8	0	0.233 3450	8 2432	+9628	0.906 3548	1 8090	−2090	0.393 1242	7850	− 909
8	12	0.225 1018	8 2591		0.908 1638	1 7443		0.393 9092	7568	
9	0	0.216 8427	8 2743	9666	0.909 9081	1 6795	1943	0.394 6660	7287	845
9	12	0.208 5684	8 2889		0.911 5876	1 6147		0.395 3947	7006	
10	0	0.200 2795	8 3030	9701	0.913 2023	1 5498	1795	0.396 0953	6724	781
10	12	+0.191 9765	8 3163		+0.914 7521	1 4849		+0.396 7677	6441	
11	0	0.183 6602	8 3291	+9734	0.916 2370	1 4198	−1646	0.397 4118	6159	− 716
11	12	0.175 3311	8 3410		0.917 6568	1 3547		0.398 0277	5877	
12	0	0.166 9901	8 3524	9763	0.919 0115	1 2896	1497	0.398 6154	5593	652
12	12	0.158 6377	8 3634		0.920 3011	1 2244		0.399 1747	5310	
13	0	+0.150 2743		+9790	+0.921 5255		−1348	+0.399 7057		− 587

Welt-Zeit		Mittleres Äquinoktium 1929.0								
		X		Red. auf 1925.0	*Y*		Red. auf 1925.0	*Z*		Red. auf 1925.0
1929	h									
Juni 13	0	+0.150 2743	8 3736	+9790	+0.921 5255	1 1591	−1348	+0.399 7057	5027	−587
13	12	0.141 9007	8 3831		0.922 6846	1 0939		0.400 2084	4744	
14	0	0.133 5176	8 3922	9814	0.923 7785	1 0286	1198	0.400 6828	4460	521
14	12	0.125 1254	8 4005		0.924 8071	9633		0.401 1288	4176	
15	0	0.116 7249	8 4084	9835	0.925 7704	8981	1048	0.401 5464	3893	456
15	12	0.108 3165	8 4156		0.926 6685	8327		0.401 9357	3609	
16	0	+0.099 9009	8 4224	+9854	+0.927 5012	7674	− 897	+0.402 2966	3325	−390
16	12	0.091 4785	8 4284		0.928 2686	7020		0.402 6291	3042	
17	0	0.083 0501	8 4339	9870	0.928 9706	6367	747	0.402 9333	2758	325
17	12	0.074 6162	8 4389		0.929 6073	5713		0.403 2091	2475	
18	0	0.066 1773	8 4432	9883	0.930 1786	5060	596	0.403 4566	2191	259
18	12	0.057 7341	8 4471		0.930 6846	4406		0.403 6757	1908	
19	0	+0.049 2870	8 4503	+9893	+0.931 1252	3753	− 445	+0.403 8665	1624	−194
19	12	0.040 8367	8 4530		0.931 5005	3098		0.404 0289	1340	
20	0	0.032 3837	8 4551	9900	0.931 8103	2444	294	0.404 1629	1058	128
20	12	0.023 9286	8 4567		0.932 0547	1790		0.404 2687	773	
21	0	0.015 4719	8 4577	9905	0.932 2337	1137	− 143	0.404 3460	491	− 62
21	12	+0.007 0142	8 4582		0.932 3474	482		0.404 3951	206	
22	0	−0.001 4440	8 4580	+9907	+0.932 3956	170	+ 9	+0.404 4157	77	+ 3
22	12	0.009 9020	8 4574		0.932 3786	825		0.404 4080	360	
23	0	0.018 3594	8 4560	9906	0.932 2961	1479	160	0.404 3720	643	69
23	12	0.026 8154	8 4543		0.932 1482	2132		0.404 3077	927	
24	0	0.035 2697	8 4520	9902	0.931 9350	2785	311	0.404 2150	1209	135
24	12	0.043 7217	8 4491		0.931 6565	3439		0.404 0941	1493	
25	0	−0.052 1708	8 4456	+9895	+0.931 3126	4092	+ 462	+0.403 9448	1775	+201
25	12	0.060 6164	8 4416		0.930 9034	4745		0.403 7673	2059	
26	0	0.069 0580	8 4368	9886	0.930 4289	5398	613	0.403 5614	2342	266
26	12	0.077 4948	8 4319		0.929 8891	6051		0.403 3272	2624	
27	0	0.085 9267	8 4261	9874	0.929 2840	6704	763	0.403 0648	2907	332
27	12	0.094 3528	8 4197		0.928 6136	7356		0.402 7741	3189	
28	0	−0.102 7725	8 4129	+9859	+0.927 8780	8008	+ 914	+0.402 4552	3472	+397
28	12	0.111 1854	8 4055		0.927 0772	8661		0.402 1080	3755	
29	0	0.119 5909	8 3975	9841	0.926 2111	9312	1065	0.401 7325	4036	463
29	12	0.127 9884	8 3888		0.925 2799	9963		0.401 3289	4319	
30	0	0.136 3772	8 3796	9821	0.924 2836	1 0614	1215	0.400 8970	4602	528
30	12	0.144 7568	8 3699		0.923 2222	1 1266		0.400 4368	4883	
Juli 1	0	−0.153 1267	8 3595	+9797	+0.922 0956	1 1916	+1365	+0.399 9485	5165	+594
1	12	0.161 4862	8 3484		0.920 9040	1 2566		0.399 4320	5447	
2	0	0.169 8346	8 3370	9771	0.919 6474	1 3215	1514	0.398 8873	5728	659
2	12	0.178 1716	8 3248		0.918 3259	1 3865		0.398 3145	6010	
3	0	0.186 4964	8 3119	+9743	0.916 9394	1 4513	+1663	0.397 7135	6291	+723
3	12	−0.194 8083			+0.915 4881			+0.397 0844		

Welt-Zeit		Mittleres Äquinoktium 1929.0								
		X		Red. auf 1925.0	Y		Red. auf 1925.0	Z		Red. auf 1925.0
1929	h									
Juli 3	12	−0.194 8083	8 2984		+0.915 4881	1 5162		+0.397 0844	6573	
4	0	0.203 1067	8 2844	+9711	0.913 9719	1 5807	+1811	0.396 4271	6853	+ 788
4	12	0.211 3911	8 2696		0.912 3912	1 6453		0.395 7418	7134	
5	0	0.219 6607	8 2544	9677	0.910 7459	1 7099	1959	0.395 0284	7413	852
5	12	0.227 9151	8 2383		0.909 0360	1 7743		0.394 2871	7692	
6	0	0.236 1534	8 2217	9640	0.907 2617	1 8386	2106	0.393 5179	7972	916
6	12	−0.244 3751	8 2044		+0.905 4231	1 9027		+0.392 7207	8251	
7	0	0.252 5795	8 1864	+9600	0.903 5204	1 9667	+2253	0.391 8956	8528	+ 980
7	12	0.260 7659	8 1680		0.901 5537	2 0306		0.391 0428	8807	
8	0	0.268 9339	8 1489	9558	0.899 5231	2 0943	2399	0.390 1621	9082	1044
8	12	0.277 0828	8 1290		0.897 4288	2 1578		0.389 2539	9358	
9	0	0.285 2118	8 1086	9513	0.895 2710	2 2210	2545	0.388 3181	9634	1107
9	12	−0.293 3204	8 0875		+0.893 0500	2 2841		+0.387 3547	9907	
10	0	0.301 4079	8 0660	+9465	0.890 7659	2 3470	+2690	0.386 3640	1 0181	+1170
10	12	0.309 4739	8 0438		0.888 4189	2 4097		0.385 3459	1 0453	
11	0	0.317 5177	8 0210	9415	0.886 0092	2 4722	2834	0.384 3006	1 0724	1233
11	12	0.325 5387	7 9975		0.883 5370	2 5345		0.383 2282	1 0995	
12	0	0.333 5362	7 9737	9362	0.881 0025	2 5965	2977	0.382 1287	1 1264	1295
12	12	−0.341 5099	7 9492		+0.878 4060	2 6583		+0.381 0023	1 1533	
13	0	0.349 4591	7 9243	+9306	0.875 7477	2 7198	+3119	0.379 8490	1 1800	+1357
13	12	0.357 3834	7 8986		0.873 0279	2 7812		0.378 6690	1 2067	
14	0	0.365 2820	7 8726	9248	0.870 2467	2 8424	3261	0.377 4623	1 2331	1418
14	12	0.373 1546	7 8459		0.867 4043	2 9032		0.376 2292	1 2596	
15	0	0.381 0005	7 8188	9187	0.864 5011	2 9639	3402	0.374 9696	1 2858	1479
15	12	−0.388 8193	7 7910		+0.861 5372	3 0244		+0.373 6838	1 3122	
16	0	0.396 6103	7 7630	+9123	0.858 5128	3 0846	+3541	0.372 3716	1 3382	+1540
16	12	0.404 3733	7 7343		0.855 4282	3 1447		0.371 0334	1 3644	
17	0	0.412 1076	7 7050	9057	0.852 2835	3 2044	3680	0.369 6690	1 3901	1600
17	12	0.419 8126	7 6752		0.849 0791	3 2639		0.368 2789	1 4160	
18	0	0.427 4878	7 6451	8988	0.845 8152	3 3232	3817	0.366 8629	1 4417	1660
18	12	−0.435 1329	7 6143		+0.842 4920	3 3822		+0.365 4212	1 4674	
19	0	0.442 7472	7 5830	+8917	0.839 1098	3 4411	+3954	0.363 9538	1 4928	+1719
19	12	0.450 3302	7 5513		0.835 6687	3 4997		0.362 4610	1 5182	
20	0	0.457 8815	7 5191	8843	0.832 1690	3 5581	4089	0.360 9428	1 5435	1778
20	12	0.465 4006	7 4863		0.828 6109	3 6162		0.359 3993	1 5686	
21	0	0.472 8869	7 4532	8767	0.824 9947	3 6741	4223	0.357 8307	1 5938	1836
21	12	−0.480 3401	7 4193		+0.821 3206	3 7317		+0.356 2369	1 6188	
22	0	0.487 7594	7 3851	+8688	0.817 5889	3 7891	+4356	0.354 6181	1 6435	+1894
22	12	0.495 1445	7 3503		0.813 7998	3 8463		0.352 9746	1 6683	
23	0	0.502 4948	7 3153	8607	0.809 9535	3 9032	4488	0.351 3063	1 6930	1951
23	12	0.509 8101	7 2796		0.806 0503	3 9599		0.349 6133	1 7175	
24	0	−0.517 0897		+8524	+0.802 0904		+4618	+0.347 8958		+2008

Welt-Zeit		Mittleres Äquinoktium 1929.0								
		X		Red. auf 1925.0	Y		Red. auf 1925.0	Z		Red. auf 1925.0
1929										
Juli 24	0h	−0.517 0897	7 2433	+8524	+0.802 0904	4 0163	+4618	+0.347 8958	1 7420	+2008
24	12	0.524 3330	7 2066		0.798 0741	4 0725		0.346 1538	1 7664	
25	0	0.531 5396	7 1695	8438	0.794 0016	4 1284	4747	0.344 3874	1 7904	2064
25	12	0.538 7091	7 1318		0.789 8732	4 1841		0.342 5970	1 8146	
26	0	0.545 8409	7 0937	8350	0.785 6891	4 2396	4875	0.340 7824	1 8387	2120
26	12	0.552 9346	7 0549		0.781 4495	4 2947		0.338 9437	1 8626	
27	0	−0.559 9895	7 0158	+8259	+0.777 1548	4 3497	+5002	+0.337 0811	1 8864	+2175
27	12	0.567 0053	6 9761		0.772 8051	4 4044		0.335 1947	1 9100	
28	0	0.573 9814	6 9360	8166	0.768 4007	4 4588	5127	0.333 2847	1 9336	2229
28	12	0.580 9174	6 8953		0.763 9419	4 5128		0.331 3511	1 9571	
29	0	0.587 8127	6 8541	8071	0.759 4291	4 5668	5251	0.329 3940	1 9805	2283
29	12	0.594 6668	6 8124		0.754 8623	4 6204		0.327 4135	2 0037	
30	0	−0.601 4792	6 7703	+7973	+0.750 2419	4 6737	+5373	+0.325 4098	2 0267	+2336
30	12	0.608 2495	6 7274		0.745 5682	4 7267		0.323 3831	2 0499	
31	0	0.614 9769	6 6843	7874	0.740 8415	4 7795	5494	0.321 3332	2 0727	2388
31	12	0.621 6612	6 6405		0.736 0620	4 8319		0.319 2605	2 0955	
Aug. 1	0	0.628 3017	6 5962	7772	0.731 2301	4 8841	5613	0.317 1650	2 1181	2440
1	12	0.634 8979	6 5512		0.726 3460	4 9359		0.315 0469	2 1406	
2	0	−0.641 4491	6 5059	+7667	+0.721 4101	4 9873	+5730	+0.312 9063	2 1629	+2491
2	12	0.647 9550	6 4600		0.716 4228	5 0385		0.310 7434	2 1852	
3	0	0.654 4150	6 4136	7561	0.711 3843	5 0893	5846	0.308 5582	2 2072	2542
3	12	0.660 8286	6 3666		0.706 2950	5 1396		0.306 3510	2 2291	
4	0	0.667 1952	6 3192	7452	0.701 1554	5 1898	5960	0.304 1219	2 2509	2592
4	12	0.673 5144	6 2712		0.695 9656	5 2395		0.301 8710	2 2725	
5	0	−0.679 7856	6 2226	+7341	+0.690 7261	5 2886	+6073	+0.299 5985	2 2939	+2641
5	12	0.686 0082	6 1738		0.685 4375	5 3375		0.297 3046	2 3151	
6	0	0.692 1820	6 1244	7229	0.680 1000	5 3860	6184	0.294 9895	2 3362	2689
6	12	0.698 3064	6 0743		0.674 7140	5 4340		0.292 6533	2 3571	
7	0	0.704 3807	6 0239	7114	0.669 2800	5 4816	6293	0.290 2962	2 3777	2736
7	12	0.710 4046	5 9731		0.663 7984	5 5289		0.287 9185	2 3983	
8	0	−0.716 3777	5 9219	+6997	+0.658 2695	5 5755	+6400	+0.285 5202	2 4185	+2783
8	12	0.722 2996	5 8701		0.652 6940	5 6219		0.283 1017	2 4387	
9	0	0.728 1697	5 8181	6878	0.647 0721	5 6677	6505	0.280 6630	2 4586	2829
9	12	0.733 9878	5 7655		0.641 4044	5 7133		0.278 2044	2 4784	
10	0	0.739 7533	5 7125	6758	0.635 6911	5 7582	6609	0.275 7260	2 4979	2874
10	12	0.745 4658	5 6591		0.629 9329	5 8029		0.273 2281	2 5173	
11	0	−0.751 1249	5 6055	+6635	+0.624 1300	5 8470	+6711	+0.270 7108	2 5363	+2918
11	12	0.756 7304	5 5514		0.618 2830	5 8907		0.268 1745	2 5553	
12	0	0.762 2818	5 4969	6511	0.612 3923	5 9339	6811	0.265 6192	2 5741	2961
12	12	0.767 7787	5 4420		0.606 4584	5 9769		0.263 0451	2 5928	
13	0	0.773 2207	5 3868	+6384	0.600 4815	6 0192	+6909	0.260 4523	2 6111	+3004
13	12	−0.778 6075			+0.594 4623			+0.257 8412		

Welt-Zeit		Mittleres Äquinoktium 1929.0								
		X		Red. auf 1925.0	Y		Red. auf 1925.0	Z		Red. auf 1925.0
1929	h									
Aug. 13	12	−0.778 6075	5 3312		+0.594 4623	6 0614		+0.257 8412	2 6294	
14	0	0.783 9387	5 2753	+6255	0.588 4009	6 1029	+7005	0.255 2118	2 6473	+3046
14	12	0.789 2140	5 2190		0.582 2980	6 1440		0.252 5645	2 6652	
15	0	0.794 4330	5 1624	6125	0.576 1540	6 1846	7099	0.249 8993	2 6828	3086
15	12	0.799 5954	5 1053		0.569 9694	6 2251		0.247 2165	2 7003	
16	0	0.804 7007	5 0481	5993	0.563 7443	6 2647	7190	0.244 5162	2 7175	3126
16	12	−0.809 7488	4 9904		+0.557 4796	6 3043		+0.241 7987	2 7347	
17	0	0.814 7392	4 9324	+5860	0.551 1753	6 3433	+7280	0.239 0640	2 7515	+3166
17	12	0.819 6716	4 8740		0.544 8320	6 3818		0.236 3125	2 7681	
18	0	0.824 5456	4 8154	5725	0.538 4502	6 4200	7368	0.233 5444	2 7847	3204
18	12	0.829 3610	4 7564		0.532 0302	6 4577		0.230 7597	2 8010	
19	0	0.834 1174	4 6970	5588	0.525 5725	6 4949	7454	0.227 9587	2 8171	3241
19	12	−0.838 8144	4 6374		+0.519 0776	6 5318		+0.225 1416	2 8330	
20	0	0.843 4518	4 5775	+5450	0.512 5458	6 5681	+7537	0.222 3086	2 8488	+3278
20	12	0.848 0293	4 5172		0.505 9777	6 6042		0.219 4598	2 8645	
21	0	0.852 5465	4 4566	5310	0.499 3735	6 6398	7619	0.216 5953	2 8798	3313
21	12	0.857 0031	4 3957		0.492 7337	6 6748		0.213 7155	2 8950	
22	0	0.861 3988	4 3345	5168	0.486 0589	6 7095	7698	0.210 8205	2 9099	3348
22	12	−0.865 7333	4 2729		+0.479 3494	6 7438		+0.207 9106	2 9249	
23	0	0.870 0062	4 2111	+5025	0.472 6056	6 7777	+7775	0.204 9857	2 9395	+3381
23	12	0.874 2173	4 1489		0.465 8279	6 8110		0.202 0462	2 9539	
24	0	0.878 3662	4 0864	4881	0.459 0169	6 8440	7850	0.199 0923	2 9682	3414
24	12	0.882 4526	4 0235		0.452 1729	6 8765		0.196 1241	2 9823	
25	0	0.886 4761	3 9603	4735	0.445 2964	6 9086	7922	0.193 1418	2 9962	3445
25	12	−0.890 4364	3 8969		+0.438 3878	6 9403		+0.190 1456	3 0099	
26	0	0.894 3333	3 8331	+4588	0.431 4475	6 9715	+7992	0.187 1357	3 0235	+3476
26	12	0.898 1664	3 7690		0.424 4760	7 0022		0.184 1122	3 0368	
27	0	0.901 9354	3 7045	4440	0.417 4738	7 0325	8060	0.181 0754	3 0499	3505
27	12	0.905 6399	3 6397		0.410 4413	7 0623		0.178 0255	3 0628	
28	0	0.909 2796	3 5746	4290	0.403 3790	7 0915	8126	0.174 9627	3 0756	3534
28	12	−0.912 8542	3 5092		+0.396 2875	7 1204		+0.171 8871	3 0881	
29	0	0.916 3634	3 4433	+4139	0.389 1671	7 1487	+8189	0.168 7990	3 1004	+3561
29	12	0.919 8067	3 3773		0.382 0184	7 1766		0.165 6986	3 1125	
30	0	0.923 1840	3 3109	3987	0.374 8418	7 2040	8250	0.162 5861	3 1245	3588
30	12	0.926 4949	3 2441		0.367 6378	7 2308		0.159 4616	3 1361	
31	0	0.929 7390	3 1772	3834	0.360 4070	7 2571	8309	0.156 3255	3 1476	3613
31	12	−0.932 9162	3 1098		+0.353 1499	7 2828		+0.153 1779	3 1588	
Sept. 1	0	0.936 0260	3 0421	+3680	0.345 8671	7 3081	+8365	0.150 0191	3 1698	+3638
1	12	0.939 0681	2 9741		0.338 5590	7 3328		0.146 8493	3 1805	
2	0	0.942 0422	2 9060	3524	0.331 2262	7 3570	8419	0.143 6688	3 1911	3661
2	12	0.944 9482	2 8375		0.323 8692	7 3804		0.140 4777	3 2013	
3	0	−0.947 7857		+3368	+0.316 4888		+8470	+0.137 2764		+3683

Welt-Zeit		Mittleres Äquinoktium 1929.0								
		X		Red. auf 1925.0	*Y*		Red. auf 1925.0	*Z*		Red. auf 1925.0
1929	h									
Sept. 3	0	−0.947 7857	2 7688	+3368	+0.316 4888	7 4035	+8470	+0.137 2764	3 2114	+3683
3	12	0.950 5545	2 6998		0.309 0853	7 4258		0.134 0650	3 2210	
4	0	0.953 2543	2 6305	3210	0.301 6595	7 4478	8519	0.130 8440	3 2306	3704
4	12	0.955 8848	2 5612		0.294 2117	7 4690		0.127 6134	3 2398	
5	0	0.958 4460	2 4915	3052	0.286 7427	7 4896	8565	0.124 3736	3 2489	3725
5	12	0.960 9375	2 4216		0.279 2531	7 5098		0.121 1247	3 2575	
6	0	−0.963 3591	2 3517	+2892	+0.271 7433	7 5294	+8609	+0.117 8672	3 2662	+3744
6	12	0.965 7108	2 2814		0.264 2139	7 5483		0.114 6010	3 2742	
7	0	0.967 9922	2 2111	2732	0.256 6656	7 5667	8651	0.111 3268	3 2823	3762
7	12	0.970 2033	2 1405		0.249 0989	7 5844		0.108 0445	3 2900	
8	0	0.972 3438	2 0699	2571	0.241 5145	7 6017	8690	0.104 7545	3 2975	3779
8	12	0.974 4137	1 9991		0.233 9128	7 6183		0.101 4570	3 3047	
9	0	−0.976 4128	1 9281	+2409	+0.226 2945	7 6344	+8727	+0.098 1523	3 3117	+3795
9	12	0.978 3409	1 8571		0.218 6601	7 6500		0.094 8406	3 3184	
10	0	0.980 1980	1 7859	2247	0.211 0101	7 6649	8761	0.091 5222	3 3249	3810
10	12	0.981 9839	1 7145		0.203 3452	7 6794		0.088 1973	3 3311	
11	0	0.983 6984	1 6431	2084	0.195 6658	7 6932	8792	0.084 8662	3 3372	3824
11	12	0.985 3415	1 5716		0.187 9726	7 7066		0.081 5290	3 3429	
12	0	−0.986 9131	1 4999	+1920	+0.180 2660	7 7193	+8821	+0.078 1861	3 3484	+3836
12	12	0.988 4130	1 4281		0.172 5467	7 7314		0.074 8377	3 3536	
13	0	0.989 8411	1 3564	1756	0.164 8153	7 7432	8847	0.071 4841	3 3587	3848
13	12	0.991 1975	1 2844		0.157 0721	7 7543		0.068 1254	3 3635	
14	0	0.992 4819	1 2124	1591	0.149 3178	7 7648	8871	0.064 7619	3 3680	3858
14	12	0.993 6943	1 1403		0.141 5530	7 7749		0.061 3939	3 3723	
15	0	−0.994 8346	1 0681	+1426	+0.133 7781	7 7843	+8892	+0.058 0216	3 3764	+3867
15	12	0.995 9027	9958		0.125 9938	7 7932		0.054 6452	3 3802	
16	0	0.996 8985	9235	1261	0.118 2006	7 8016	8910	0.051 2650	3 3838	3875
16	12	0.997 8220	8510		0.110 3990	7 8095		0.047 8812	3 3873	
17	0	0.998 6730	7787	1095	0.102 5895	7 8168	8926	0.044 4939	3 3903	3882
17	12	0.999 4517	7062		0.094 7727	7 8236		0.041 1036	3 3932	
18	0	−1.000 1579	6335	+ 929	+0.086 9491	7 8298	+8939	+0.037 7104	3 3959	+3888
18	12	1.000 7914	5608		0.079 1193	7 8355		0.034 3145	3 3984	
19	0	1.001 3522	4882	762	0.071 2838	7 8409	8950	0.030 9161	3 4006	3893
19	12	1.001 8404	4154		0.063 4429	7 8453		0.027 5155	3 4025	
20	0	1.002 2558	3425	596	0.055 5976	7 8495	8958	0.024 1130	3 4044	3896
20	12	1.002 5983	2697		0.047 7481	7 8532		0.020 7086	3 4059	
21	0	−1.002 8680	1967	+ 429	+0.039 8949	7 8562	+8964	+0.017 3027	3 4073	+3899
21	12	1.003 0647	1236		0.032 0387	7 8587		0.013 8954	3 4083	
22	0	1.003 1883	506	262	0.024 1800	7 8607	8967	0.010 4871	3 4091	3900
22	12	1.003 2389	226		0.016 3193	7 8623		0.007 0780	3 4098	
23	0	1.003 2163	959	+ 95	0.008 4570	7 8631	+8967	0.003 6682	3 4102	+3900
23	12	−1.003 1204			+0.000 5939			+0.000 2580		

Welt-Zeit		Mittleres Äquinoktium 1929.0								
		X		Red. auf 1925.0	Y		Red. auf 1925.0	Z		Red. auf 1925.0
1929										
Sept. 23	12h	−1.003 1204	1691		+0.000 5939	7 8635		+0.000 2580	3 4103	
24	0	1.002 9513	2424	− 72	−0.007 2696	7 8632	+8965	−0.003 1523	3 4103	+3899
24	12	1.002 7089	3158		0.015 1328	7 8626		0.006 5626	3 4100	
25	0	1.002 3931	3893	239	0.022 9954	7 8613	8960	0.009 9726	3 4095	3897
25	12	1.002 0038	4628		0.030 8567	7 8593		0.013 3821	3 4086	
26	0	1.001 5410	5364	406	0.038 7160	7 8570	8952	0.016 7907	3 4077	3894
26	12	−1.001 0046	6100		−0.046 5730	7 8539		−0.020 1984	3 4063	
27	0	1.000 3946	6836	− 573	0.054 4269	7 8503	+8942	0.023 6047	3 4049	+3889
27	12	0.999 7110	7573		0.062 2772	7 8461		0.027 0096	3 4030	
28	0	0.998 9537	8310	740	0.070 1233	7 8412	8929	0.030 4126	3 4011	3884
28	12	0.998 1227	9048		0.077 9645	7 8357		0.033 8137	3 3987	
29	0	0.997 2179	9785	906	0.085 8002	7 8298	8914	0.037 2124	3 3961	3877
29	12	−0.996 2394	1 0522		−0.093 6300	7 8231		−0.040 6085	3 3932	
30	0	0.995 1872	1 1259	−1073	0.101 4531	7 8158	+8896	0.044 0017	3 3902	+3869
30	12	0.994 0613	1 1995		0.109 2689	7 8080		0.047 3919	3 3868	
Okt. 1	0	0.992 8618	1 2732	1239	0.117 0769	7 7995	8875	0.050 7787	3 3831	3860
1	12	0.991 5886	1 3469		0.124 8764	7 7902		0.054 1618	3 3792	
2	0	0.990 2417	1 4203	1405	0.132 6666	7 7806	8852	0.057 5410	3 3750	3850
2	12	−0.988 8214	1 4938		−0.140 4472	7 7700		−0.060 9160	3 3705	
3	0	0.987 3276	1 5671	−1570	0.148 2172	7 7591	+8826	0.064 2865	3 3657	+3839
3	12	0.985 7605	1 6404		0.155 9763	7 7474		0.067 6522	3 3607	
4	0	0.984 1201	1 7136	1735	0.163 7237	7 7352	8797	0.071 0129	3 3554	3826
4	12	0.982 4065	1 7866		0.171 4589	7 7223		0.074 3683	3 3498	
5	0	0.980 6199	1 8595	1899	0.179 1812	7 7088	8766	0.077 7181	3 3441	3813
5	12	−0.978 7604	1 9323		−0.186 8900	7 6947		−0.081 0622	3 3378	
6	0	0.976 8281	2 0049	−2063	0.194 5847	7 6801	+8732	0.084 4000	3 3315	+3798
6	12	0.974 8232	2 0773		0.202 2648	7 6647		0.087 7315	3 3248	
7	0	0.972 7459	2 1497	2226	0.209 9295	7 6489	8696	0.091 0563	3 3179	3782
7	12	0.970 5962	2 2217		0.217 5784	7 6323		0.094 3742	3 3108	
8	0	0.968 3745	2 2936	2388	0.225 2107	7 6154	8657	0.097 6850	3 3035	3765
8	12	−0.966 0809	2 3655		−0.232 8261	7 5977		−0.100 9885	3 2956	
9	0	0.963 7154	2 4370	−2550	0.240 4238	7 5796	+8615	0.104 2841	3 2878	+3747
9	12	0.961 2784	2 5085		0.248 0034	7 5609		0.107 5719	3 2797	
10	0	0.958 7699	2 5796	2711	0.255 5643	7 5415	8571	0.110 8516	3 2712	3728
10	12	0.956 1903	2 6507		0.263 1058	7 5216		0.114 1228	3 2625	
11	0	0.953 5396	2 7215	2871	0.270 6274	7 5012	8524	0.117 3853	3 2537	3708
11	12	−0.950 8181	2 7921		−0.278 1286	7 4802		−0.120 6390	3 2446	
12	0	0.948 0260	2 8624	−3030	0.285 6088	7 4586	+8475	0.123 8836	3 2352	+3686
12	12	0.945 1636	2 9327		0.293 0674	7 4366		0.127 1188	3 2255	
13	0	0.942 2309	3 0026	3188	0.300 5040	7 4139	8423	0.130 3443	3 2157	3663
13	12	0.939 2283	3 0724		0.307 9179	7 3907		0.133 5600	3 2056	
14	0	−0.936 1559		−3345	−0.315 3086		+8369	−0.136 7656		+3640

Welt-Zeit		Mittleres Äquinoktium 1929.0								
		X		Red. auf 1925.0	Y		Red. auf 1925.0	Z		Red. auf 1925.0
1929	h									
Okt. 14	0	−0.936 1559	3 1418	−3345	−0.315 3086	7 3671	+8369	−0.136 7656	3 1953	+3640
14	12	0.933 0141	3 2112		0.322 6757	7 3428		0.139 9609	3 1847	
15	0	0.929 8029	3 2802	3502	0.330 0185	7 3181	8312	0.143 1456	3 1739	3615
15	12	0.926 5227	3 3492		0.337 3366	7 2927		0.146 3195	3 1629	
16	0	0.923 1735	3 4176	3657	0.344 6293	7 2670	8253	0.149 4824	3 1518	3589
16	12	0.919 7559	3 4860		0.351 8963	7 2407		0.152 6342	3 1403	
17	0	−0.916 2699	3 5541	−3811	−0.359 1370	7 2139	+8192	−0.155 7745	3 1286	+3562
17	12	0.912 7158	3 6219		0.366 3509	7 1865		0.158 9031	3 1167	
18	0	0.909 0939	3 6895	3964	0.373 5374	7 1587	8128	0.162 0198	3 1047	3534
18	12	0.905 4044	3 7571		0.380 6961	7 1303		0.165 1245	3 0924	
19	0	0.901 6473	3 8241	4116	0.387 8264	7 1014	8062	0.168 2169	3 0799	3505
19	12	0.897 8232	3 8912		0.394 9278	7 0722		0.171 2968	3 0671	
20	0	−0.893 9320	3 9578	−4266	−0.402 0000	7 0424	+7993	−0.174 3639	3 0541	+3475
20	12	0.889 9742	4 0243		0.409 0424	7 0121		0.177 4180	3 0410	
21	0	0.885 9499	4 0905	4416	0.416 0545	6 9809	7922	0.180 4590	3 0277	3444
21	12	0.881 8594	4 1566		0.423 0354	6 9497		0.183 4867	3 0140	
22	0	0.877 7028	4 2224	4564	0.429 9851	6 9178	7848	0.186 5007	3 0002	3412
22	12	0.873 4804	4 2879		0.436 9029	6 8853		0.189 5009	2 9861	
23	0	−0.869 1925	4 3532	−4711	−0.443 7882	6 8524	+7772	−0.192 4870	2 9719	+3379
23	12	0.864 8393	4 4184		0.450 6406	6 8189		0.195 4589	2 9574	
24	0	0.860 4209	4 4831	4856	0.457 4595	6 7849	7693	0.198 4163	2 9428	3345
24	12	0.855 9378	4 5477		0.464 2444	6 7503		0.201 3591	2 9277	
25	0	0.851 3901	4 6119	5000	0.470 9947	6 7152	7612	0.204 2868	2 9126	3310
25	12	0.846 7782	4 6760		0.477 7099	6 6795		0.207 1994	2 8971	
26	0	−0.842 1022	4 7397	−5142	−0.484 3894	6 6434	+7529	−0.210 0965	2 8815	+3274
26	12	0.837 3625	4 8032		0.491 0328	6 6066		0.212 9780	2 8655	
27	0	0.832 5593	4 8662	5283	0.497 6394	6 5693	7444	0.215 8435	2 8495	3237
27	12	0.827 6931	4 9392		0.504 2087	6 5314		0.218 6930	2 8331	
28	0	0.822 7539	4 9815	5423	0.510 7401	6 4931	7357	0.221 5261	2 8164	3199
28	12	0.817 7724	5 0536		0.517 2332	6 4540		0.224 3425	2 7996	
29	0	−0.812 7188	5 1155	−5560	−0.523 6872	6 4146	+7267	−0.227 1421	2 7826	+3160
29	12	0.807 6033	5 1770		0.530 1018	6 3746		0.229 9247	2 7652	
30	0	0.802 4263	5 2379	5696	0.536 4764	6 3339	7175	0.232 6899	2 7476	3120
30	12	0.797 1884	5 2988		0.542 8103	6 2928		0.235 4375	2 7297	
31	0	0.791 8896	5 3589	5831	0.549 1031	6 2511	7081	0.238 1672	2 7117	3079
31	12	0.786 5307	5 4189		0.555 3542	6 2089		0.240 8789	2 6934	
Nov. 1	0	−0.781 1118	5 4783	−5963	−0.561 5631	6 1664	+6985	−0.243 5723	2 6749	+3037
1	12	0.775 6335	5 5373		0.567 7295	6 1230		0.246 2472	2 6562	
2	0	0.770 0962	5 5960	6094	0.573 8525	6 0793	6886	0.248 9034	2 6371	2994
2	12	0.764 5002	5 6541		0.579 9318	6 0351		0.251 5405	2 6181	
3	0	0.758 8461	5 7120	−6223	0.585 9669	5 9903	+6786	0.254 1586	2 5985	+2950
3	12	−0.753 1341			−0.591 9572			−0.256 7571		

Welt-Zeit		Mittleres Äquinoktium 1929.0								
		X		Red. auf 1925.0	*Y*		Red. auf 1925.0	*Z*		Red. auf 1925.0
1929	h									
Nov. 3	12	−0.753 1341	5 7692		−0.591 9572	5 9452		−0.256 7571	2 5789	
4	0	0.747 3649	5 8261	−6349	0.597 9024	5 8994	+6683	0.259 3360	2 5592	+2906
4	12	0.741 5388	5 8824		0.603 8018	5 8533		0.261 8952	2 5390	
5	0	0.735 6564	5 9384	6474	0.609 6551	5 8067	6579	0.264 4342	2 5189	2860
5	12	0.729 7180	5 9937		0.615 4618	5 7596		0.266 9531	2 4984	
6	0	0.723 7243	6 0487	6597	0.621 2214	5 7121	6472	0.269 4515	2 4778	2814
6	12	−0.717 6756	6 1032		−0.626 9335	5 6641		−0.271 9293	2 4568	
7	0	0.711 5724	6 1572	−6718	0.632 5976	5 6157	+6363	0.274 3861	2 4358	+2767
7	12	0.705 4152	6 2108		0.638 2133	5 5668		0.276 8219	2 4147	
8	0	0.699 2044	6 2638	6837	0.643 7801	5 5175	6253	0.279 2366	2 3933	2719
8	12	0.692 9406	6 3162		0.649 2976	5 4679		0.281 6299	2 3716	
9	0	0.686 6244	6 3684	6953	0.654 7655	5 4177	6140	0.284 0015	2 3499	2670
9	12	−0.680 2560	6 4199		−0.660 1832	5 3672		−0.286 3514	2 3279	
10	0	0.673 8361	6 4710	−7068	0.665 5504	5 3163	+6026	0.288 6793	2 3058	+2620
10	12	0.667 3651	6 5216		0.670 8667	5 2649		0.290 9851	2 2835	
11	0	0.660 8435	6 5717	7180	0.676 1316	5 2133	5910	0.293 2686	2 2610	2570
11	12	0.654 2718	6 6211		0.681 3449	5 1611		0.295 5296	2 2384	
12	0	0.647 6507	6 6702	7290	0.686 5060	5 1087	5792	0.297 7680	2 2156	2519
12	12	−0.640 9805	6 7188		−0.691 6147	5 0558		−0.299 9836	2 1926	
13	0	0.634 2617	6 7668	−7398	0.696 6705	5 0025	+5672	0.302 1762	2 1696	+2467
13	12	0.627 4949	6 8143		0.701 6730	4 9492		0.304 3458	2 1463	
14	0	0.620 6806	6 8614	7504	0.706 6222	4 8952	5551	0.306 4921	2 1229	2414
14	12	0.613 8192	6 9078		0.711 5174	4 8409		0.308 6150	2 0994	
15	0	0.606 9114	6 9539	7608	0.716 3583	4 7862	5428	0.310 7144	2 0756	2360
15	12	−0.599 9575	6 9994		−0.721 1445	4 7313		−0.312 7900	2 0518	
16	0	0.592 9581	7 0445	−7709	0.725 8758	4 6761	+5304	0.314 8418	2 0278	+2306
16	12	0.585 9136	7 0890		0.730 5519	4 6204		0.316 8696	2 0037	
17	0	0.578 8246	7 1330	7808	0.735 1723	4 5645	5178	0.318 8733	1 9794	2251
17	12	0.571 6916	7 1766		0.739 7368	4 5080		0.320 8527	1 9550	
18	0	0.564 5150	7 2198	7904	0.744 2448	4 4515	5050	0.322 8077	1 9304	2195
18	12	−0.557 2952	7 2623		−0.748 6963	4 3946		−0.324 7381	1 9058	
19	0	0.550 0329	7 3046	−7998	0.753 0909	4 3371	+4921	0.326 6439	1 8810	+2139
19	12	0.542 7283	7 3461		0.757 4280	4 2795		0.328 5249	1 8559	
20	0	0.535 3822	7 3873	8090	0.761 7075	4 2214	4790	0.330 3808	1 8308	2082
20	12	0.527 9949	7 4279		0.765 9289	4 1630		0.332 2116	1 8055	
21	0	0.520 5670	7 4681	8179	0.770 0919	4 1043	4657	0.334 0171	1 7801	2025
21	12	−0.513 0989	7 5076		−0.774 1962	4 0451		−0.335 7972	1 7545	
22	0	0.505 5913	7 5468	−8266	0.778 2413	3 9858	+4523	0.337 5517	1 7287	+1967
22	12	0.498 0445	7 5853		0.782 2271	3 9258		0.339 2804	1 7028	
23	0	0.490 4592	7 6233	8350	0.786 1529	3 8657	4388	0.340 9832	1 6768	1908
23	12	0.482 8359	7 6609		0.790 0186	3 8051		0.342 6600	1 6505	
24	0	−0.475 1750		−8432	−0.793 8237		+4251	−0.344 3105		+1849

Welt-Zeit		Mittleres Äquinoktium 1929.0								
		X		Red. auf 1925.0	Y		Red. auf 1925.0	Z		Red. auf 1925.0
1929	h									
Nov. 24	0	−0.475 1750	7 6978	−8432	−0.793 8237	3 7443	+4251	−0.344 3105	1 6242	+1849
24	12	0.467 4772	7 7341		0.797 5680	3 6830		0.345 9347	1 5977	
25	0	0.459 7431	7 7700	8511	0.801 2510	3 6215	4113	0.347 5324	1 5710	1789
25	12	0.451 9731	7 8052		0.804 8725	3 5595		0.349 1034	1 5441	
26	0	0.444 1679	7 8397	8587	0.808 4320	3 4973	3974	0.350 6475	1 5172	1728
26	12	0.436 3282	7 8738		0.811 9293	3 4347		0.352 1647	1 4900	
27	0	−0.428 4544	7 9073	−8661	−0.815 3640	3 3717	+3833	−0.353 6547	1 4629	+1667
27	12	0.420 5471	7 9399		0.818 7357	3 3086		0.355 1176	1 4354	
28	0	0.412 6072	7 9721	8732	0.822 0443	3 2451	3691	0.356 5530	1 4078	1605
28	12	0.404 6351	8 0035		0.825 2894	3 1812		0.357 9608	1 3802	
29	0	0.396 6316	8 0346	8801	0.828 4706	3 1171	3549	0.359 3410	1 3524	1543
29	12	0.388 5970	8 0647		0.831 5877	3 0527		0.360 6934	1 3243	
30	0	−0.380 5323	8 0944	−8866	−0.834 6404	2 9881	+3405	−0.362 0177	1 2963	+1481
30	12	0.372 4379	8 1233		0.837 6285	2 9230		0.363 3140	1 2682	
Dez. 1	0	0.364 3146	8 1515	8929	0.840 5515	2 8579	3260	0.364 5822	1 2399	1418
1	12	0.356 1631	8 1790		0.843 4094	2 7926		0.365 8221	1 2115	
2	0	0.347 9841	8 2061	8989	0.846 2020	2 7268	3114	0.367 0336	1 1830	1355
2	12	0.339 7780	8 2324		0.848 9288	2 6609		0.368 2166	1 1544	
3	0	−0.331 5456	8 2579	−9046	−0.851 5897	2 5948	+2968	−0.369 3710	1 1257	+1291
3	12	0.323 2877	8 2829		0.854 1845	2 5285		0.370 4967	1 0969	
4	0	0.315 0048	8 3072	9101	0.856 7130	2 4619	2820	0.371 5936	1 0680	1227
4	12	0.306 6976	8 3308		0.859 1749	2 3951		0.372 6616	1 0389	
5	0	0.298 3668	8 3536	9152	0.861 5700	2 3283	2672	0.373 7005	1 0099	1162
5	12	0.290 0132	8 3760		0.863 8983	2 2612		0.374 7104	9809	
6	0	−0.281 6372	8 3975	−9201	−0.866 1595	2 1941	+2522	−0.375 6913	9516	+1097
6	12	0.273 2397	8 4183		0.868 3536	2 1265		0.376 6429	9223	
7	0	0.264 8214	8 4386	9247	0.870 4801	2 0589	2371	0.377 5652	8930	1031
7	12	0.256 3828	8 4581		0.872 5390	1 9912		0.378 4582	8637	
8	0	0.247 9247	8 4770	9290	0.874 5302	1 9235	2220	0.379 3219	8341	966
8	12	0.239 4477	8 4952		0.876 4537	1 8554		0.380 1560	8045	
9	0	−0.230 9525	8 5127	−9330	−0.878 3091	1 7872	+2068	−0.380 9605	7749	+ 900
9	12	0.222 4398	8 5295		0.880 0963	1 7190		0.381 7354	7454	
10	0	0.213 9103	8 5458	9367	0.881 8153	1 6507	1916	0.382 4808	7157	833
10	12	0.205 3645	8 5612		0.883 4660	1 5822		0.383 1965	6860	
11	0	0.196 8033	8 5762	9402	0.885 0482	1 5137	1763	0.383 8825	6563	767
11	12	0.188 2271	8 5902		0.886 5619	1 4451		0.384 5388	6264	
12	0	−0.179 6369	8 6039	−9434	−0.888 0070	1 3763	+1610	−0.385 1652	5966	+ 700
12	12	0.171 0330	8 6167		0.889 3833	1 3075		0.385 7618	5668	
13	0	0.162 4163	8 6289	9463	0.890 6908	1 2387	1456	0.386 3286	5369	633
13	12	0.153 7874	8 6405		0.891 9295	1 1698		0.386 8655	5070	
14	0	0.145 1469	8 6516	−9488	0.893 0993	1 1008	+1302	0.387 3725	4771	+ 566
14	12	−0.136 4953			−0.894 2001			−0.387 8496		

Welt-Zeit		Mittleres Äquinoktium 1929.0								
		X		Red. auf 1925.0	*Y*		Red. auf 1925.0	*Z*		Red. auf 1925.0
1929	h									
Dez. 14	12	−0.136 4953	8 6618		−0.894 2001	1 0317		−0.387 8496	4471	
15	0	0.127 8335	8 6715	−9511	0.895 2318	9626	+1147	0.388 2967	4172	+ 499
15	12	0.119 1620	8 6807		0.896 1944	8934		0.388 7139	3872	
16	0	0.110 4813	8 6891	9531	0.897 0878	8242	992	0.389 1011	3573	431
16	12	0.101 7922	8 6970		0.897 9120	7549		0.389 4584	3271	
17	0	0.093 0952	8 7042	9548	0.898 6669	6855	836	0.389 7855	2971	363
17	12	−0.084 3910	8 7108		−0.899 3524	6161		−0.390 0826	2671	
18	0	0.075 6802	8 7168	−9562	0.899 9685	5466	+ 680	0.390 3497	2369	+ 295
18	12	0.066 9634	8 7222		0.900 5151	4770		0.390 5866	2069	
19	0	0.058 2412	8 7271	9573	0.900 9921	4074	525	0.390 7935	1766	228
19	12	0.049 5141	8 7311		0.901 3995	3377		0.390 9701	1464	
20	0	0.040 7830	8 7347	9581	0.901 7372	2678	369	0.391 1165	1162	160
20	12	−0.032 0483	8 7375		−0.902 0050	1980		−0.391 2327	860	
21	0	0.023 3108	8 7397	−9586	0.902 2030	1280	+ 213	0.391 3187	557	+ 92
21	12	0.014 5711	8 7412		0.902 3310	580		0.391 3744	253	
22	0	−0.005 8299	8 7421	9588	0.902 3890	120	+ 57	0.391 3997	51	+ 24
22	12	+0.002 9122	8 7423		0.902 3770	821		0.391 3946	354	
23	0	0.011 6545	8 7419	9587	0.902 2949	1522	− 99	0.391 3592	658	− 44
23	12	+0.020 3964	8 7406		−0.902 1427	2224		−0.391 2934	962	
24	0	0.029 1370	8 7388	−9583	0.901 9203	2926	− 256	0.391 1972	1266	− 111
24	12	0.037 8758	8 7362		0.901 6277	3629		0.391 0706	1571	
25	0	0.046 6120	8 7331	9576	0.901 2648	4331	412	0.390 9135	1875	179
25	12	0.055 3451	8 7290		0.900 8317	5034		0.390 7260	2180	
26	0	0.064 0741	8 7244	9566	0 900 3283	5736	568	0.390 5080	2485	247
26	12	+0.072 7985	8 7190		−0.899 7547	6438		−0.390 2595	2789	
27	0	0.081 5175	8 7129	−9553	0.899 1109	7141	− 724	0.389 9806	3094	− 315
27	12	0.090 2304	8 7061		0.898 3968	7843		0.389 6712	3398	
28	0	0.098 9365	8 6985	9537	0.897 6125	8543	879	0.389 3314	3703	382
28	12	0.107 6350	8 6903		0.896 7582	9244		0.388 9611	4007	
29	0	0.116 3253	8 6814	9519	0.895 8338	9945	1035	0.388 5604	4311	450
29	12	+0.125 0067	8 6716		−0.894 8393	1 0644		−0.388 1293	4614	
30	0	0.133 6783	8 6614	−9497	0.893 7749	1 1343	−1190	0.387 6679	4918	− 517
30	12	0.142 3397	8 6502		0.892 6406	1 2040		0.387 1761	5221	
31	0	0.150 9899	8 6384	9472	0.891 4366	1 2737	1345	0.386 6540	5523	585
31	12	0.159 6283	8 6259		0.890 1629	1 3433		0.386 1017	5826	
32	0	+0.168 2542		−9444	−0.888 8196		−1500	−0.385 5191		− 652

		h m			h m
Frühlingsäquinoktium	21. März	2 35	Herbstäquinoktium	23. Sept.	12 53
Sommersolstitium	21. Juni	22 1	Wintersolstitium	22. Dez.	7 53

Perigäum	1. Jan.	8h
Apogäum	4. Juli	22

Tag	0h Welt-Zeit			
	Aberration	Parallaxe	Mittlere Länge $L_\odot$	Mittlere Anomalie $M_\odot$
1929				
Jan. − 7	20.″81	8.″95	272.°2809	350.°56
+ 3	20.82	8.95	282.1374	0.42
13	20.81	8.95	291.9939	10.28
23	20.80	8.94	301.8503	20.13
Febr. 2	20.77	8.93	311.7068	29.99
12	20.73	8.91	321.5633	39.84
22	20.69	8.89	331.4198	49.70
März 4	20.64	8.87	341.2762	59.56
14	20.59	8.85	351.1327	69.41
24	20.53	8.83	0.9892	79.27
April 3	20.47	8.80	10.8457	89.12
13	20.41	8.77	20.7021	98.98
23	20.36	8.75	30.5586	108.84
Mai 3	20.30	8.73	40.4151	118.69
13	20.26	8.71	50.2715	128.55
23	20.22	8.69	60.1280	138.40
Juni 2	20.18	8.68	69.9845	148.26
12	20.16	8.67	79.8410	158.12
22	20.14	8.66	89.6974	167.97
Juli 2	20.13	8.66	99.5539	177.83
12	20.14	8.66	109.4104	187.68
22	20.15	8.66	119.2669	197.54
Aug. 1	20.17	8.67	129.1233	207.40
11	20.20	8.68	138.9798	217.25
21	20.24	8.70	148.8363	227.11
31	20.28	8.72	158.6928	236.96
Sept. 10	20.33	8.74	168.5492	246.82
20	20.39	8.76	178.4057	256.68
30	20.44	8.79	188.2622	266.53
Okt. 10	20.50	8.81	198.1186	276.39
20	20.56	8.84	207.9751	286.24
30	20.62	8.86	217.8316	296.10
Nov. 9	20.67	8.89	227.6881	305.96
19	20.72	8.91	237.5445	315.81
29	20.76	8.93	247.4010	325.67
Dez. 9	20.79	8.94	257.2575	335.52
19	20.81	8.94	267.1140	345.38
29	20.82	8.95	276.9704	355.24
39	20.81	8.95	286.8269	5.09

Phasen des Mondes

1929		Welt-Zeit			1929		Welt-Zeit		
		h	m				h	m	
Jan.	2	18	44.4	Letztes Viertel	Juli	6	20	47.0	Neumond
	11	0	28.2	Neumond		13	16	5.0	Erstes Viertel
	18	15	15.1	Erstes Viertel		21	19	20.7	Vollmond
	25	7	9.1	Vollmond		29	12	55.8	Letztes Viertel
Febr.	1	14	10.4	Letztes Viertel	Aug.	5	3	40.1	Neumond
	9	17	55.1	Neumond		12	6	1.4	Erstes Viertel
	17	0	22.5	Erstes Viertel		20	9	42.3	Vollmond
	23	18	58.6	Vollmond		27	20	1.7	Letztes Viertel
März	3	11	9.1	Letztes Viertel	Sept.	3	11	47.5	Neumond
	11	8	36.6	Neumond		10	22	57.1	Erstes Viertel
	18	7	41.5	Erstes Viertel		18	23	15.8	Vollmond
	25	7	46.3	Vollmond		26	2	6.8	Letztes Viertel
April	2	7	29.0	Letztes Viertel	Okt.	2	22	19.3	Neumond
	9	20	32.6	Neumond		10	18	5.2	Erstes Viertel
	16	14	9.2	Erstes Viertel		18	12	5.9	Vollmond
	23	21	47.4	Vollmond		25	8	21.2	Letztes Viertel
Mai	2	1	25.5	Letztes Viertel	Nov.	1	12	0.9	Neumond
	9	6	7.3	Neumond		9	14	9.8	Erstes Viertel
	15	20	56.0	Erstes Viertel		17	0	14.2	Vollmond
	23	12	49 9	Vollmond		23	16	4.3	Letztes Viertel
	31	16	13.0	Letztes Viertel	Dez.	1	4	48.4	Neumond
Juni	7	13	56.4	Neumond		9	9	41.7	Erstes Viertel
	14	5	14.5	Erstes Viertel		16	11	38.2	Vollmond
	22	4	15.0	Vollmond		23	2	27.3	Letztes Viertel
	30	3	53.7	Letztes Viertel		30	23	41.7	Neumond

Mond im Perigäum

1929		Welt-Zeit
		h
Jan.	23	11.8
Febr.	20	6.5
März	17	14.4
April	12	21.5
Mai	10	20.1
Juni	8	3.5
Juli	6	13.0
Aug.	3	21.2
Aug.	31	22.9
Sept.	28	0.7
Okt.	22	22.0
Nov.	19	5.8
Dez.	17	12.1

Mond im Apogäum

1929		Welt-Zeit
		h
Jan.	7	15.7
Febr.	4	8.5
März	4	4.9
April	1	1.2
April	28	19.0
Mai	26	7.9
Juni	22	12.9
Juli	19	16.4
Aug.	16	3.0
Sept.	12	19.3
Okt.	10	14.7
Nov.	7	11.0
Dez.	5	5.4

Tag	0h Welt-Zeit Scheinbare Rektaszension	Diff.	Scheinbare Deklination	Diff.	Parallaxe	Diff.	Halbmesser	Diff.	Länge	Breite
1929	h m s	m s	° ′	° ′	′ ″	″	′ ″	″	°	°
Jan. 0	10 37 32	50 3	+14 14.5	5 25.1	58 9.6	57.8	15 52.3	15.7	155.627	+5.156
1	11 27 35	46 57	+ 8 49.4	5 37.4	57 11.8	53.2	15 36.6	14.5	169.075	+4.892
2	12 14 32	45 4	+ 3 12.0	5 35.1	56 18.6	45.8	15 22.1	12.5	182.061	+4.382
3	12 59 36	44 18	− 2 23.1	5 21.7	55 32.8	36.8	15 9.6	10.1	194.641	+3.673
4	13 43 54	44 35	− 7 44.8	4 58.8	54 56.0	27.3	14 59.5	7.4	206.894	+2.812
5	14 28 29	45 41	−12 43.6	4 26.7	54 28.7	17.7	14 52.1	4.8	218.904	+1.843
6	15 14 10	47 28	−17 10.3	3 45.2	54 11.0	9.0	14 47.3	2.5	230.757	+0.807
7	16 1 38	49 34	−20 55.5	2 53.6	54 2.0	1.1	14 44.8	0.3	242.532	−0.254
8	16 51 12	51 35	−23 49.1	1 52.0	54 0.9	5.6	14 44.5	1.6	254.300	−1.301
9	17 42 47	53 3	−25 41.1	0 42.4	54 6.5	11.2	14 46.1	3.0	266.118	−2.294
10	18 35 50	53 38	−26 23.5	0 32.0	54 17.7	15.8	14 49.1	4.3	278.032	−3.192
11	19 29 28	53 11	−25 51.5	1 46.3	54 33.5	19.7	14 53.4	5.4	290.076	−3.955
12	20 22 39	51 55	−24 5.2	2 55.5	54 53.2	23.2	14 58.8	6.3	302.272	−4.546
13	21 14 34	50 15	−21 9.7	3 55.9	55 16.4	26.5	15 5.1	7.2	314.634	−4.932
14	22 4 49	48 41	−17 13.8	4 45.1	55 42.9	29.8	15 12.3	8.1	327.175	−5.087
15	22 53 30	47 36	−12 28.7	5 22.1	56 12.7	33.1	15 20.4	9.1	339.905	−4.994
16	23 41 6	47 20	− 7 6.6	5 46.4	56 45.8	36.3	15 29.5	9.9	352.839	−4.647
17	0 28 26	48 6	− 1 20.2	5 57.1	57 22.1	39.0	15 39.4	10.6	5.998	−4.050
18	1 16 32	50 1	+ 4 36.9	5 52.4	58 1.1	40.1	15 50.0	10.9	19.408	−3.222
19	2 6 33	53 6	+10 29.3	5 29.0	58 41.2	39.1	16 0.9	10.7	33.095	−2.193
20	2 59 39	57 5	+15 58.3	4 43.2	59 20.3	34.8	16 11.6	9.4	47.080	−1.013
21	3 56 44	61 26	+20 41.5	3 31.9	59 55.1	26.7	16 21.0	7.3	61.365	+0.253
22	4 58 10	64 57	+24 13.4	1 56.1	60 21.8	14.8	16 28.3	4.1	75.926	+1.525
23	6 3 7	66 26	+26 9.5	0 4.5	60 36.6	0.1	16 32.4	0.1	90.699	+2.711
24	7 9 33	65 15	+26 14.0	1 48.3	60 36.5	16.3	16 32.3	4.4	105.584	+3.719
25	8 14 48	61 49	+24 25.7	3 25.9	60 20.2	31.3	16 27.9	8.5	120.446	+4.472
26	9 16 37	57 19	+20 59.8	4 38.5	59 48.9	43.3	16 19.4	11.9	135.140	+4.918
27	10 13 56	52 56	+16 21.3	5 23.9	59 5.6	51.0	16 7.5	13.8	149.533	+5.040
28	11 6 52	49 22	+10 57.4	5 45.4	58 14.6	53.6	15 53.7	14.6	163.524	+4.853
29	11 56 14	46 54	+ 5 12.0	5 48.0	57 21.0	51.9	15 39.1	14.2	177.063	+4.395
30	12 43 8	45 33	− 0 36.0	5 36.2	56 29.1	46.4	15 24.9	12.6	190.145	+3.717
31	13 28 41	45 15	− 6 12.2	5 13.3	55 42.7	38.4	15 12.3	10.5	202.807	+2.874
Febr. 1	14 13 56	45 53	−11 25.5	4 40.9	55 4.3	28.8	15 1.8	7.8	215.117	+1.918
2	14 59 49	47 12	−16 6.4	3 59.4	54 35.5	18.6	14 54.0	5.1	227.158	+0.895
3	15 47 1	49 8	−20 5.8	3 9.0	54 16.9	8.3	14 48.9	2.2	239.023	−0.151
4	16 36 9	51 3	−23 14.8	2 9.3	54 8.6	1.4	14 46.7	0.3	250.806	−1.183
5	17 27 12	52 42	−25 24.1	1 1.5	54 10.0	9.9	14 47.0	2.7	262.593	−2.163
6	18 19 54	53 39	−26 25.6	0 12.3	54 19.9	17.1	14 49.7	4.7	274.462	−3.053
7	19 13 33	53 38	−26 13.3	1 27.9	54 37.0	22.6	14 54.4	6.1	286.475	−3.817
8	20 7 11	52 44	−24 45.4	2 40.6	54 59.6	26.5	15 0.5	7.2	298.678	−4.417
9	20 59 55	51 18	−22 4.8	3 45.8	55 26.1	28.7	15 7.7	7.9	311.099	−4.819
10	21 51 13		−18 19.0		55 54.8		15 15.6		323.747	−4.992

Tag	Obere Kulmination in Greenwich: AR.	Änderung für 1h westl. Länge	Dekl.	Änderung für 1h westl. Länge	Parallaxe	Zeit des Durchgangs	Änderung für 1h westl. Länge	0h Länge, +50° Breite: Aufgang	Änderung für 1h westl. Länge	Untergang	Änderung für 1h westl. Länge
1929	h m s	s	° ′	′	′	h m	m	h m	m	h m	m
Jan. 0	10 46 28	132	+13 19.9	−13.7	58.0	4 9.1	2.04	21 59	3.1	11 20	0.8
1	11 37 27	123	+ 7 40.5	−14.4	57.0	4 56.0	1.88	23 14	3.0	11 37	0.7
2	12 25 18	117	+ 1 52.3	−14.5	56.1	5 39.8	1.78	—	—	11 52	0.6
3	13 11 23	114	− 3 50.1	−14.0	55.4	6 21.8	1.74	0 25	2.9	12 6	0.6
4	13 56 56	114	− 9 15.4	−13.1	54.8	7 3.3	1.73	1 34	2.9	12 21	0.7
5	14 43 5	117	−14 13.7	−11.7	54.4	7 45.4	1.78	2 42	2.9	12 38	0.8
6	15 30 43	122	−18 35.2	−10.0	54.1	8 29.0	1.85	3 51	2.9	12 58	0.9
7	16 20 28	127	−22 9.0	− 7.8	54.0	9 14.7	1.95	5 0	2.8	13 23	1.2
8	17 12 34	133	−24 44.0	− 5.1	54.0	10 2.7	2.05	6 6	2.7	13 54	1.5
9	18 6 42	137	−26 9.4	− 2.0	54.2	10 52.7	2.12	7 8	2.4	14 36	2.0
10	19 2 3	139	−26 17.3	+ 1.3	54.4	11 44.0	2.15	8 2	2.0	15 28	2.4
11	19 57 29	138	−25 4.8	+ 4.7	54.7	12 35.4	2.12	8 46	1.6	16 29	2.7
12	20 51 54	134	−22 35.1	+ 7.7	55.1	13 25.7	2.06	9 20	1.3	17 38	3.0
13	21 44 35	129	−18 56.4	+10.4	55.5	14 14.3	1.99	9 47	1.0	18 50	3.1
14	22 35 26	125	−14 20.4	+12.5	56.0	15 1.1	1.92	10 9	0.8	20 4	3.1
15	23 24 52	122	− 9 0.4	+14.1	56.6	15 46.4	1.87	10 27	0.7	21 18	3.1
16	0 13 39	122	− 3 10.0	+15.0	57.2	16 31.2	1.87	10 43	0.7	22 33	3.2
17	1 2 55	125	+ 2 56.6	+15.4	57.8	17 16.4	1.91	10 59	0.7	23 50	3.2
18	1 53 55	131	+ 9 3.4	+15.0	58.5	18 3.3	2.01	11 15	0.7	—	—
19	2 48 2	140	+14 51.2	+13.8	59.2	18 53.3	2.16	11 34	0.9	1 8	3.4
20	3 46 25	152	+19 56.2	+11.4	59.8	19 47.6	2.36	11 58	1.1	2 31	3.5
21	4 49 41	164	+23 50.0	+ 7.8	60.3	20 46.8	2.56	12 28	1.5	3 56	3.5
22	5 57 9	172	+26 3.5	+ 3.1	60.6	21 50.1	2.70	13 11	2.1	5 20	3.3
23	7 6 35	173	+26 16.2	− 2.1	60.6	22 55.5	2.72	14 9	2.7	6 36	2.9
24	8 14 47	167	+24 25.7	− 7.0	60.3	23 59.5	2.60	15 22	3.2	7 38	2.2
25	—	—	—	—	—	—	—	16 45	3.5	8 23	1.6
26	9 19 5	154	+20 49.5	−10.8	59.8	0 59.7	2.40	18 11	3.5	8 56	1.2
27	10 18 18	142	+15 56.8	−13.3	59.0	1 54.9	2.20	19 33	3.4	9 20	0.9
28	11 12 41	131	+10 18.5	−14.7	58.1	2 45.2	2.00	20 52	3.2	9 39	0.8
29	12 3 15	123	+ 4 20.6	−15.0	57.2	3 31.7	1.88	22 6	3.0	9 56	0.7
30	12 51 17	118	− 1 36.9	−14.7	56.3	4 15.6	1.79	23 18	3.0	10 11	0.6
31	13 38 3	116	− 7 19.3	−13.8	55.6	4 58.3	1.77	—	—	10 26	0.6
Febr. 1	14 24 42	117	−12 35.2	−12.5	54.9	5 40.9	1.79	0 29	2.9	10 42	0.7
2	15 12 16	121	−17 14.7	−10.8	54.5	6 24.4	1.84	1 39	2.9	11 1	0.9
3	16 1 30	126	−21 7.9	− 8.6	54.2	7 9.6	1.92	2 48	2.9	11 24	1.1
4	16 52 51	131	−24 4.7	− 6.0	54.1	7 56.9	2.01	3 56	2.7	11 53	1.4
5	17 46 18	136	−25 54.8	− 3.1	54.2	8 46.2	2.10	4 59	2.5	12 30	1.8
6	18 41 21	139	−26 29.7	+ 0.2	54.4	9 37.2	2.14	5 56	2.2	13 19	2.2
7	19 37 1	139	−25 44.1	+ 3.6	54.8	10 28.8	2.15	6 44	1.8	14 17	2.6
8	20 32 14	137	−23 38.2	+ 6.9	55.2	11 19.9	2.10	7 21	1.4	15 25	2.9
9	21 26 7	133	−20 17.9	+ 9.8	55.7	12 9.7	2.04	7 50	1.1	16 38	3.1
10	22 18 15	128	−15 53.7	+12.2	56.2	12 57.8	1.97	8 14	0.9	17 52	3.1

Tag	0ʰ Welt-Zeit									
	Scheinbare Rektaszension		Scheinbare Deklination		Parallaxe		Halbmesser		Länge	Breite
1929	h m s	m s	° ′	° ′	′ ″	″	′ ″	″	°	°
Febr. 10	21 51 13	49 43	−18 19.0	4 40.1	55 54.8	29.6	15 15.6	8.0	323.747	−4.992
11	22 40 56	48 26	−13 38.9	5 21.2	56 24.4	29.4	15 23.6	8.1	336.616	−4.916
12	23 29 22	47 50	− 8 17.7	5 48.1	56 53.8	28.7	15 31.7	7.8	349.692	−4.582
13	0 17 12	48 6	− 2 29.6	5 59.9	57 22.5	27.6	15 39.5	7.5	2.955	−3.998
14	1 5 18	49 22	+ 3 30.3	5 55.4	57 50.1	26.2	15 47.0	7.1	16.387	−3.185
15	1 54 40	51 43	+ 9 25.7	5 33.0	58 16.3	24.6	15 54.1	6.7	29.980	−2.181
16	2 46 23	54 57	+14 58.7	4 50.6	58 40.9	22.3	16 0.8	6.1	43.733	−1.037
17	3 41 20	58 41	+19 49.3	3 46.4	59 3.2	19.0	16 6.9	5.2	57.649	+0.182
18	4 40 1	62 4	+23 35.7	2 20.7	59 22.2	13.8	16 12.1	3.8	71.731	+1.404
19	5 42 5	64 8	+25 56.4	0 38.6	59 36.0	6.8	16 15.9	1.8	85.970	+2.552
20	6 46 13	64 2	+26 35.0	1 9.2	59 42.8	2.3	16 17.7	0.6	100.337	+3.547
21	7 50 15	61 49	+25 25.8	2 49.7	59 40.5	12.6	16 17.1	3.5	114.775	+4.320
22	8 52 4	58 16	+22 36.1	4 11.8	59 27.9	23.2	16 13.6	6.3	129.203	+4.816
23	9 50 20	54 21	+18 24.3	5 9.7	59 4.7	32.7	16 7.3	8.9	143.519	+5.005
24	10 44 41	50 54	+13 14.6	5 43.6	58 32.0	39.9	15 58.4	10.9	157.621	+4.884
25	11 35 35	48 18	+ 7 31.0	5 55.8	57 52.1	43.9	15 47.5	11.9	171.418	+4.478
26	12 23 53	46 43	+ 1 35.2	5 50.6	57 8.2	44.3	15 35.6	12.1	184.853	+3.829
27	13 10 36	46 6	− 4 15.4	5 31.1	56 23.9	41.4	15 23.5	11.3	197.900	+2.994
28	13 56 42	46 24	− 9 46.5	5 0.1	55 42.5	35.5	15 12.2	9.6	210.573	+2.030
März 1	14 43 6	47 25	−14 46.6	4 19.1	55 7.0	27.4	15 2.6	7.5	222.916	+0.992
2	15 30 31	48 56	−19 5.7	3 28.8	54 39.6	17.8	14 55.1	4.8	234.998	−0.072
3	16 19 27	50 41	−22 34.5	2 29.8	54 21.8	7.4	14 50.3	2.1	246.901	−1.118
4	17 10 8	52 15	−25 4.3	1 23.2	54 14.4	3.1	14 48.2	0.9	258.715	−2.109
5	18 2 23	53 17	−26 27.5	0 10.7	54 17.5	13.1	14 49.1	3.5	270.534	−3.009
6	18 55 40	53 33	−26 38.2	1 4.8	54 30.6	22.0	14 52.6	6.0	282.443	−3.785
7	19 49 13	53 0	−25 33.4	2 18.9	54 52.6	29.3	14 58.6	8.0	294.523	−4.403
8	20 42 13	51 51	−23 14.5	3 28.0	55 21.9	34.5	15 6.6	9.4	306.836	−4.829
9	21 34 4	50 31	−19 46.5	4 28.2	55 56.4	37.1	15 16.0	10.1	319.426	−5.032
10	22 24 35	49 22	−15 18.3	5 16.5	56 33.5	37.2	15 26.1	10.2	332.314	−4.988
11	23 13 57	48 44	−10 1.8	5 50.7	57 10.7	34.7	15 36.3	9.4	345.497	−4.679
12	0 2 41	48 53	− 4 11.1	6 8.6	57 45.4	30.2	15 45.7	8.2	358.948	−4.107
13	0 51 34	49 57	+ 1 57.5	6 8.7	58 15.6	24.3	15 53.9	6.7	12.623	−3.289
14	1 41 31	52 0	+ 8 6.2	5 48.8	58 39.9	17.7	16 0.6	4.8	26.471	−2.267
15	2 33 31	54 50	+13 55.0	5 7.7	58 57.6	11.4	16 5.4	3.1	40.442	−1.098
16	3 28 21	58 7	+19 2.7	4 4.3	59 9.0	5.6	16 8.5	1.5	54.490	+0.147
17	4 26 28	61 8	+23 7.0	2 40.7	59 14.6	0.5	16 10.0	0.1	68.586	+1.389
18	5 27 36	62 58	+25 47.7	1 1.7	59 15.1	4.1	16 10.1	1.1	82.704	+2.549
19	6 30 34	62 57	+26 49.4	0 42.9	59 11.0	8.6	16 9.0	2.3	96.828	+3.555
20	7 33 31	61 1	+26 6.5	2 22.0	59 2.4	13.2	16 6.7	3.6	110.936	+4.342
21	8 34 32	57 50	+23 44.5	3 45.9	58 49.2	18.1	16 3.1	4.9	125.000	+4.865
22	9 32 22	54 14	+19 58.6	4 49.4	58 31.1	23.1	15 58.2	6.3	138.978	+5.095
23	10 26 36		+15 9.2		58 8.0		15 51.9		152.822	+5.024

Tag	Obere Kulmination in Greenwich							0h Länge, + 50° Breite			
	AR.	Änderung für 1h westl. Länge	Dekl.	Änderung für 1h westl. Länge	Parallaxe	Zeit des Durchgangs	Änderung für 1h westl. Länge	Aufgang	Änderung für 1h westl. Länge	Untergang	Änderung für 1h westl. Länge
1929	h m s	s	° ′	′	′	h m	m	h m	m	h m	m
Febr. 10	22 18 15	128	−15 53.7	+12.2	56.2	12 57.8	1.97	8 14	0.9	17 52	3.1
11	23 8 47	125	−10 39.2	+13.9	56.7	13 44.2	1.91	8 33	0.8	19 8	3.2
12	23 58 17	123	− 4 49.7	+15.1	57.2	14 29.7	1.89	8 50	0.7	20 24	3.2
13	0 47 40	124	+ 1 18.7	+15.5	57.7	15 15.0	1.90	9 6	0.7	21 40	3.2
14	1 38 3	128	+ 7 29.1	+15.2	58.1	16 1.3	1.97	9 22	0.7	22 58	3.3
15	2 30 38	135	+13 22.7	+14.1	58.6	16 49.8	2.09	9 39	0.8	—	—
16	3 26 32	145	+18 38.2	+12.0	59.0	17 41.6	2.24	10 0	1.0	0 19	3.4
17	4 26 33	155	+22 51.7	+ 8.9	59.3	18 37.6	2.42	10 27	1.3	1 42	3.4
18	5 30 34	164	+25 37.9	+ 4.8	59.6	19 37.5	2.57	11 4	1.8	3 4	3.3
19	6 37 15	168	+26 36.1	0.0	59.7	20 40.0	2.63	11 54	2.4	4 22	3.0
20	7 44 13	166	+25 36.9	− 4.9	59.7	21 42.9	2.59	12 59	3.0	5 26	2.4
21	8 48 52	157	+22 47.3	− 9.1	59.5	22 43.4	2.45	14 17	3.4	6 17	1.8
22	9 49 33	146	+18 28.3	−12.3	59.1	23 40.0	2.27	15 41	3.5	6 53	1.3
23	—	—	—	—	—	—	—	17 5	3.4	7 20	1.0
24	10 45 52	136	+13 7.1	−14.3	58.5	0 32.2	2.09	18 25	3.3	7 42	0.8
25	11 38 21	127	+ 7 11.2	−15.2	57.8	1 20.7	1.95	19 43	3.2	7 59	0.7
26	12 28 2	122	+ 1 4.0	−15.3	57.1	2 6.3	1.86	20 57	3.1	8 14	0.6
27	13 16 4	119	− 4 55.8	−14.6	56.3	2 50.2	1.82	22 10	3.0	8 30	0.6
28	14 3 33	119	−10 33.3	−13.4	55.6	3 33.7	1.81	23 22	3.0	8 45	0.7
März 1	14 51 29	121	−15 36.2	−11.8	55.0	4 17.5	1.85	—	—	9 3	0.8
2	15 40 39	125	−19 54.0	− 9.7	54.6	5 2.6	1.91	0 33	2.9	9 24	1.0
3	16 31 35	130	−23 16.6	− 7.2	54.3	5 49.5	2.00	1 42	2.8	9 50	1.3
4	17 24 26	134	−25 34.3	− 4.3	54.2	6 38.3	2.07	2 48	2.6	10 24	1.6
5	18 18 54	138	−26 38.8	− 1.1	54.3	7 28.7	2.13	3 48	2.3	11 8	2.1
6	19 14 17	139	−26 24.3	+ 2.3	54.6	8 20.0	2.14	4 39	1.9	12 3	2.5
7	20 9 36	137	−24 48.8	+ 5.6	55.1	9 11.2	2.12	5 20	1.5	13 8	2.8
8	21 4 2	134	−21 55.5	+ 8.8	55.6	10 1.6	2.07	5 52	1.2	14 19	3.0
9	21 57 4	131	−17 52.1	+11.5	56.2	10 50.5	2.01	6 17	1.0	15 34	3.1
10	22 48 38	127	−12 50.1	+13.6	56.9	11 38.0	1.95	6 38	0.8	16 50	3.2
11	23 39 11	126	− 7 3.8	+15.1	57.5	12 24.5	1.93	6 55	0.7	18 7	3.2
12	0 29 27	126	− 0 49.8	+15.9	58.0	13 10.7	1.93	7 12	0.7	19 25	3.3
13	1 20 26	129	+ 5 33.2	+15.9	58.5	13 57.6	1.99	7 28	0.7	20 45	3.4
14	2 13 13	135	+11 44.6	+14.9	58.9	14 46.3	2.08	7 45	0.8	22 6	3.4
15	3 8 52	143	+17 21.4	+13.0	59.1	15 37.9	2.22	8 4	0.9	23 30	3.5
16	4 8 4	153	+21 59.2	+10.0	59.2	16 33.0	2.38	8 29	1.2	—	—
17	5 10 52	161	+25 13.6	+ 6.1	59.3	17 31.7	2.51	9 2	1.6	0 54	3.4
18	6 16 11	165	+26 44.6	+ 1.5	59.2	18 32.9	2.57	9 47	2.2	2 14	3.1
19	7 22 0	163	+26 22.2	− 3.3	59.1	19 34.6	2.55	10 47	2.8	3 22	2.5
20	8 26 0	156	+24 10.4	− 7.6	58.9	20 34.5	2.43	12 0	3.2	4 15	1.9
21	9 26 33	146	+20 25.3	−11.0	58.6	21 30.9	2.27	13 20	3.4	4 55	1.4
22	10 23 4	137	+15 30.2	−13.4	58.2	22 23.4	2.11	14 42	3.4	5 24	1.1
23	11 15 56	128	+ 9 49.6	−14.8	57.7	23 12.1	1.96	16 3	3.3	5 46	0.8

Tag	Scheinbare Rektaszension	Diff.	Scheinbare Deklination	Diff.	Parallaxe	Diff.	Halbmesser	Diff.	Länge	Breite
	0ʰ Welt-Zeit									
1929	h m s	m s	° ′	° ′	′ ″	″	′ ″	″	°	°
März 23	10 26 36	50 59	+15 9.2	5 31.1	58 8.0	27.9	15 51.9	7.6	152.822	+5.024
24	11 17 35	48 29	+ 9 38.1	5 52.4	57 40.1	31.8	15 44.3	8.7	166.477	+4.666
25	12 6 4	46 56	+ 3 45.7	5 55.6	57 8.3	34.2	15 35.6	9.3	179.893	+4.055
26	12 53 0	46 17	− 2 9.9	5 43.3	56 34.1	34.8	15 26.3	9.5	193.032	+3.238
27	13 39 17	46 31	− 7 53.2	5 17.2	55 59.3	33.1	15 16.8	9.0	205.875	+2.270
28	14 25 48	47 26	−13 10.4	4 39.5	55 26.2	28.9	15 7.8	7.9	218.427	+1.210
29	15 13 14	48 51	−17 49.9	3 50.9	54 57.3	22.8	14 59.9	6.2	230.714	+0.112
30	16 2 5	50 29	−21 40.8	2 53.0	54 34.5	14.8	14 53.7	4.0	242.782	−0.974
31	16 52 34	51 58	−24 33.8	1 47.0	54 19.7	5.5	14 49.7	1.5	254.696	−2.005
April 1	17 44 32	52 58	−26 20.8	0 35.3	54 14.2	4.7	14 48.2	1.2	266.529	−2.944
2	18 37 30	53 14	−26 56.1	0 39.3	54 18.9	15.0	14 49.4	4.1	278.366	−3.757
3	19 30 44	52 46	−26 16.8	1 53.3	54 33.9	25.1	14 53.5	6.9	290.291	−4.415
4	20 23 30	51 45	−24 23.5	3 3.4	54 59.0	34.0	15 0.4	9.2	302.389	−4.887
5	21 15 15	50 31	−21 20.1	4 6.7	55 33.0	41.1	15 9.6	11.2	314.734	−5.144
6	22 5 46	49 28	−17 13.4	5 0.3	56 14.1	45.5	15 20.8	12.4	327.390	−5.160
7	22 55 14	48 54	−12 13.1	5 42.3	56 59.6	46.7	15 33.2	12.7	340.398	−4.916
8	23 44 8	49 8	− 6 30.8	6 9.8	57 46.3	43.9	15 45.9	12.0	353.772	−4.400
9	0 33 16	50 15	− 0 21.0	6 19.8	58 30.2	37.4	15 57.9	10.2	7.499	−3.620
10	1 23 31	52 22	+ 5 58.8	6 8.9	59 7.6	27.9	16 8.1	7.6	21.531	−2.606
11	2 15 53	55 21	+12 7.7	5 34.2	59 35.5	16.4	16 15.7	4.5	35.800	−1.412
12	3 11 14	58 47	+17 41.9	4 34.1	59 51.9	4.6	16 20.2	1.2	50.220	−0.113
13	4 10 1	61 58	+22 16.0	3 10.2	59 56.5	6.4	16 21.4	1.7	64.701	+1.200
14	5 11 59	63 51	+25 26.2	1 28.6	59 50.1	15.3	16 19.7	4.2	79.163	+2.436
15	6 15 50	63 46	+26 54.8	0 19.4	59 34.8	21.7	16 15.5	5.9	93.538	+3.512
16	7 19 36	61 37	+26 35.4	2 1.5	59 13.1	25.8	16 9.6	7.0	107.775	+4.360
17	8 21 13	58 7	+24 33.9	3 27.7	58 47.3	28.4	16 2.6	7.7	121.842	+4.934
18	9 19 20	54 14	+21 6.2	4 33.3	58 19.1	29.3	15 54.9	8.0	135.716	+5.212
19	10 13 34	50 45	+16 32.9	5 18.0	57 49.8	29.7	15 46.9	8.1	149.383	+5.189
20	11 4 19	48 7	+11 14.9	5 43.4	57 20.1	29.8	15 38.8	8.1	162.834	+4.880
21	11 52 26	46 26	+ 5 31.5	5 52.1	56 50.3	29.5	15 30.7	8.0	176.062	+4.315
22	12 38 52	45 44	− 0 20.6	5 45.9	56 20.8	28.8	15 22.7	7.9	189.061	+3.534
23	13 24 36	45 58	− 6 6.5	5 26.1	55 52.0	27.4	15 14.8	7.5	201.832	+2.588
24	14 10 34	46 55	−11 32.6	4 53.8	55 24.6	25.1	15 7.3	6.8	214.378	+1.530
25	14 57 29	48 24	−16 26.4	4 9.5	54 59.5	21.6	15 0.5	5.9	226.714	+0.417
26	15 45 53	50 7	−20 35.9	3 14.4	54 37.9	16.6	14 54.6	4.5	238.862	−0.700
27	16 36 0	51 43	−23 50.3	2 10.1	54 21.3	10.3	14 50.1	2.8	250.856	−1.774
28	17 27 43	52 46	−26 0.4	0 59.2	54 11.0	2.5	14 47.3	0.7	262.741	−2.761
29	18 20 29	53 6	−26 59.6	0 15.0	54 8.5	6.5	14 46.6	1.8	274.573	−3.625
30	19 13 35	52 34	−26 44.6	1 28.7	54 15.0	16.0	14 48.4	4.4	286.416	−4.336
Mai 1	20 6 9	51 27	−25 15.9	2 38.6	54 31.0	26.1	14 52.8	7.1	298.342	−4.866
2	20 57 36	50 5	−22 37.3	3 41.9	54 57.1	35.7	14 59.9	9.7	310.429	−5.188
3	21 47 41		−18 55.4		55 32.8		15 9.6		322.752	−5.282

Mond 1929

Tag	Obere Kulmination in Greenwich							0ʰ Länge, +50° Breite			
	AR.	Änderung für 1ʰ westl. Länge	Dekl.	Änderung für 1ʰ westl. Länge	Parallaxe	Zeit des Durchgangs	Änderung für 1ʰ westl. Länge	Aufgang	Änderung für 1ʰ westl. Länge	Untergang	Änderung für 1ʰ westl. Länge
1929	h m s	s	° ′	′	′	h m	m	h m	m	h m	m
März 23	11 15 56	128	+ 9 49.6	−14.8	57.7	23 12.1	1.96	16 3	3.3	5 46	0.8
24	12 6 1	123	+ 3 46.2	−15.3	57.1	23 58.2	1.87	17 21	3.2	6 4	0.7
25	—	—	—	—	—	—	—	18 36	3.1	6 19	0.6
26	12 54 22	120	− 2 20.3	−15.1	56.6	0 42.4	1.83	19 50	3.1	6 34	0.6
27	13 42 3	119	− 8 13.0	−14.2	56.0	1 26.1	1.81	21 3	3.0	6 49	0.7
28	14 30 2	121	−13 37.4	−12.7	55.4	2 10.0	1.85	22 15	3.0	7 6	0.8
29	15 19 5	125	−18 20.7	−10.8	54.9	2 55.0	1.90	23 27	2.9	7 25	0.9
30	16 9 44	129	−22 11.4	− 8.4	54.5	3 41.6	1.98	—	—	7 49	1.1
31	17 2 12	133	−24 59.1	− 5.5	54.3	4 29.9	2.06	0 35	2.7	8 20	1.5
April 1	17 56 14	137	−26 35.0	− 2.4	54.2	5 19.9	2.11	1 38	2.5	8 59	1.9
2	18 51 12	138	−26 53.2	+ 0.9	54.4	6 10.8	2.13	2 33	2.1	9 49	2.3
3	19 46 16	137	−25 51.2	+ 4.2	54.7	7 1.8	2.11	3 18	1.7	10 50	2.7
4	20 40 36	134	−23 30.8	+ 7.4	55.2	7 52.0	2.07	3 53	1.3	11 58	2.9
5	21 33 40	131	−19 57.7	+10.3	55.8	8 41.0	2.01	4 20	1.0	13 11	3.1
6	22 25 24	128	−15 20.6	+12.7	56.5	9 28.7	1.96	4 42	0.8	14 27	3.2
7	23 16 10	126	− 9 51.1	+14.6	57.3	10 15.4	1.93	5 0	0.7	15 44	3.2
8	0 6 38	127	− 3 43.3	+15.9	58.1	11 1.8	1.94	5 17	0.7	17 2	3.3
9	0 57 48	130	+ 2 46.0	+16.4	58.8	11 48.9	1.99	5 32	0.7	18 22	3.4
10	1 50 45	135	+ 9 15.7	+15.9	59.4	12 37.7	2.09	5 49	0.8	19 45	3.5
11	2 46 35	144	+15 21.5	+14.4	59.8	13 29.5	2.23	6 8	0.9	21 11	3.6
12	3 46 8	154	+20 35.4	+11.6	59.9	14 24.9	2.39	6 31	1.1	22 38	3.6
13	4 49 29	162	+24 29.0	+ 7.7	59.9	15 24.2	2.54	7 1	1.5	—	—
14	5 55 37	167	+26 38.5	+ 3.0	59.7	16 26.2	2.61	7 43	2.0	0 2	3.3
15	7 2 25	166	+26 51.2	− 1.9	59.3	17 28.9	2.59	8 39	2.6	1 16	2.8
16	8 7 22	158	+25 10.0	− 6.4	58.9	18 29.7	2.46	9 48	3.1	2 15	2.1
17	9 8 37	148	+21 51.3	−10.0	58.4	19 26.9	2.29	11 7	3.3	2 58	1.5
18	10 5 31	137	+17 18.1	−12.6	57.9	20 19.7	2.12	12 28	3.4	3 29	1.1
19	10 58 26	128	+11 54.5	−14.2	57.4	21 8.5	1.96	13 48	3.3	3 52	0.9
20	11 48 19	122	+ 6 2.0	−15.0	56.9	21 54.3	1.86	15 6	3.2	4 11	0.7
21	12 36 15	118	− 0 0.7	−15.1	56.4	22 38.2	1.81	16 20	3.1	4 26	0.6
22	13 23 23	118	− 5 57.4	−14.5	55.9	23 21.3	1.79	17 34	3.0	4 41	0.6
23	—	—	—	—	—	—	—	18 46	3.0	4 55	0.6
24	14 10 43	119	−11 33.6	−13.4	55.4	0 4.6	1.82	19 59	3.0	5 11	0.7
25	14 59 6	123	−16 35.6	−11.7	55.0	0 48.9	1.88	21 11	3.0	5 29	0.8
26	15 49 8	128	−20 50.5	− 9.5	54.6	1 34.8	1.95	22 21	2.8	5 50	1.0
27	16 41 4	132	−24 6.2	− 6.8	54.3	2 22.7	2.03	23 27	2.6	6 18	1.3
28	17 34 43	136	−26 12.6	− 3.7	54.2	3 12.3	2.09	—	—	6 54	1.7
29	18 29 27	137	−27 2.4	− 0.4	54.1	4 2.9	2.12	0 26	2.2	7 40	2.1
30	19 24 22	137	−26 32.4	+ 2.9	54.3	4 53.8	2.11	1 14	1.8	8 36	2.5
Mai 1	20 18 33	134	−24 44.1	+ 6.1	54.6	5 43.9	2.06	1 53	1.4	9 41	2.8
2	21 11 24	130	−21 42.7	+ 9.0	55.1	6 32.6	2.01	2 22	1.1	10 51	3.0
3	22 2 44	127	−17 36.1	+11.5	55.8	7 19.9	1.94	2 46	0.9	12 4	3.1

Tag		Scheinbare Rektaszension		Scheinbare Deklination		Parallaxe		Halbmesser		Länge	Breite
		0h Welt-Zeit									
1929		h m s	m s	° '	° '	' "	"	' "	"	°	°
Mai	3	21 47 41	48 52	−18 55.4	4 37.1	55 32.8	44.2	15 9.6	12.0	322.752	−5.282
	4	22 36 33	48 10	−14 18.3	5 22.7	56 17.0	50.6	15 21.6	13.8	335.382	−5.126
	5	23 24 43	48 14	− 8 55.6	5 56.7	57 7.6	53.8	15 35.4	14.7	348.380	−4.708
	6	0 12 57	49 19	− 2 58.9	6 16.6	58 1.4	52.9	15 50.1	14.4	1.784	−4.024
	7	1 2 16	51 28	+ 3 17.7	6 18.3	58 54.3	47.0	16 4.5	12.8	15.606	−3.089
	8	1 53 44	54 41	+ 9 36.0	5 56.9	59 41.3	36.5	16 17.3	9.9	29.822	−1.939
	9	2 48 25	58 39	+15 32.9	5 8.3	60 17.8	22.0	16 27.2	6.0	44.370	−0.638
	10	3 47 4	62 38	+20 41.2	3 50.8	60 39.8	5.6	16 33.2	1.6	59.152	+0.727
	11	4 49 42	65 30	+24 32.0	2 8.9	60 45.4	10.6	16 34.8	2.9	74.047	+2.052
	12	5 55 12	66 6	+26 40.9	0 14.3	60 34.8	24.3	16 31.9	6.6	88.926	+3.237
	13	7 1 18	64 8	+26 55.2	1 37.1	60 10.5	34.3	16 25.3	9.4	103.668	+4.195
	14	8 5 26	60 18	+25 18.1	3 11.9	59 36.2	40.3	16 15.9	11.0	118.177	+4.868
	15	9 5 44	55 48	+22 6.2	4 23.1	58 55.9	42.5	16 4.9	11.5	132.387	+5.226
	16	10 1 32	51 38	+17 43.1	5 10.9	58 13.4	41.9	15 53.4	11.5	146.265	+5.270
	17	10 53 10	48 24	+12 32.2	5 38.2	57 31.5	39.4	15 41.9	10.7	159.808	+5.017
	18	11 41 34	46 17	+ 6 54.0	5 48.6	56 52.1	35.9	15 31.2	9.8	173.030	+4.501
	19	12 27 51	45 16	+ 1 5.4	5 44.9	56 16.2	31.9	15 21.4	8.7	185.960	+3.766
	20	13 13 7	45 15	− 4 39.5	5 28.8	55 44.3	27.8	15 12.7	7.5	198.633	+2.860
	21	13 58 22	46 7	−10 8.3	5 0.8	55 16.5	23.8	15 5.2	6.5	211.084	+1.832
	22	14 44 29	47 37	−15 9.1	4 21.3	54 52.7	19.7	14 58.7	5.4	223.349	+0.735
	23	15 32 6	49 26	−19 30.4	3 30.4	54 33.0	15.4	14 53.3	4.2	235.460	−0.382
	24	16 21 32	51 15	−23 0.8	2 29.1	54 17.6	10.7	14 49.1	2.9	247.450	−1.470
	25	17 12 47	52 34	−25 29.9	1 20.0	54 6.9	5.1	14 46.2	1.4	259.350	−2.485
	26	18 5 21	53 5	−26 49.9	0 6.1	54 1.8	1.1	14 44.8	0.3	271.197	−3.387
	27	18 58 26	52 39	−26 56.0	1 7.9	54 2.9	8.5	14 45.1	2.3	283.028	−4.141
	28	19 51 5	51 27	−25 48.1	2 18.1	54 11.4	16.7	14 47.4	4.6	294.891	−4.720
	29	20 42 32	49 51	−23 30.0	3 21.3	54 28.1	25.5	14 52.0	6.9	306.839	−5.099
	30	21 32 23	48 19	−20 8.7	4 16.0	54 53.6	34.6	14 58.9	9.4	318.930	−5.257
	31	22 20 42	47 13	−15 52.7	5 1.7	55 28.2	43.3	15 8.3	11.8	331.229	−5.180
Juni	1	23 7 55	46 54	−10 51.0	5 37.2	56 11.5	50.6	15 20.1	13.8	343.806	−4.856
	2	23 54 49	47 32	− 5 13.8	6 1.4	57 2.1	55.7	15 33.9	15.2	356.726	−4.282
	3	0 42 21	49 21	+ 0 47.6	6 11.7	57 57.8	57.1	15 49.1	15.6	10.044	−3.463
	4	1 31 42	52 24	+ 6 59.3	6 3.2	58 54.9	53.7	16 4.7	14.6	23.797	−2.422
	5	2 24 6	56 31	+13 2.5	5 30.7	59 48.6	44.8	16 19.3	12.2	37.993	−1.202
	6	3 20 37	61 16	+18 33.2	4 28.8	60 33.4	30.6	16 31.5	8.3	52.597	+0.128
	7	4 21 53	65 30	+23 2.0	2 57.0	61 4.0	12.6	16 39.8	3.5	67.530	+1.478
	8	5 27 23	67 49	+25 59.0	1 2.3	61 16.6	6.8	16 43.3	1.9	82.665	+2.740
	9	6 35 12	67 11	+27 1.3	0 58.6	61 9.8	24.9	16 41.4	6.8	97.849	+3.811
	10	7 42 23	63 50	+26 2.7	2 47.5	60 44.9	39.1	16 34.6	10.6	112.917	+4.609
	11	8 46 13	59 2	+23 15.2	4 11.6	60 5.8	48.3	16 24.0	13.2	127.724	+5.082
	12	9 45 15	54 11	+19 3.6	5 8.0	59 17.5	52.4	16 10.8	14.3	142.162	+5.219
	13	10 39 26		+13 55.6		58 25.1		15 56.5		156.173	+5.037

Tag	Obere Kulmination in Greenwich: AR.	Änderung für 1ʰ westl. Länge	Dekl.	Änderung für 1ʰ westl. Länge	Parallaxe	Zeit des Durchgangs	Änderung für 1ʰ westl. Länge	0ʰ Länge, + 50° Breite: Aufgang	Änderung für 1ʰ westl. Länge	Untergang	Änderung für 1ʰ westl. Länge
1929	h m s	s	° '	'	'	h m	m	h m	m	h m	m
Mai 3	22 2 44	127	−17 36.1	+11.5	55.8	7 19.9	1.94	2 46	0.9	12 4	3.1
4	22 52 51	124	−12 33.9	+13.6	56.6	8 6.0	1.90	3 5	0.7	13 19	3.2
5	23 42 28	124	− 6 47.3	+15.2	57.5	8 51.5	1.90	3 21	0.7	14 36	3.2
6	0 32 32	127	− 0 29.3	+16.2	58.4	9 37.5	1.94	3 37	0.7	15 54	3.3
7	1 24 16	133	+ 6 2.9	+16.4	59.3	10 25.2	2.04	3 53	0.7	17 16	3.5
8	2 18 56	141	+12 27.7	+15.5	60.0	11 15.7	2.19	4 10	0.8	18 41	3.6
9	3 17 38	152	+18 17.2	+13.4	60.5	12 10.4	2.37	4 31	1.0	20 10	3.7
10	4 20 58	164	+22 59.1	+ 9.9	60.7	13 9.6	2.56	4 58	1.4	21 39	3.6
11	5 28 16	172	+26 1.8	+ 5.2	60.7	14 12.8	2.69	5 36	1.9	23 1	3.1
12	6 37 26	173	+27 3.4	− 0.1	60.3	15 17.8	2.71	6 27	2.5	—	—
13	7 45 22	166	+26 0.3	− 5.1	59.8	16 21.6	2.59	7 34	3.0	0 8	2.4
14	8 49 30	154	+23 7.4	− 9.1	59.1	17 21.7	2.40	8 53	3.4	0 58	1.8
15	9 48 38	142	+18 51.0	−12.0	58.4	18 16.7	2.19	10 16	3.4	1 33	1.3
16	10 42 57	131	+13 38.3	−13.9	57.7	19 6.9	2.01	11 37	3.3	1 59	1.0
17	11 33 28	123	+ 7 53.1	−14.8	57.0	19 53.4	1.88	12 55	3.2	2 19	0.8
18	12 21 25	118	+ 1 54.6	−15.0	56.4	20 37.3	1.79	14 10	3.1	2 35	0.6
19	13 8 6	116	− 4 1.7	−14.6	55.8	21 19.9	1.76	15 23	3.0	2 49	0.6
20	13 54 39	117	− 9 42.3	−13.7	55.3	22 2.4	1.78	16 34	3.0	3 3	0.6
21	14 42 5	120	−14 54.5	−12.2	54.9	22 45.7	1.84	17 46	3.0	3 18	0.7
22	15 31 6	125	−19 25.6	−10.3	54.6	23 30.7	1.91	18 58	3.0	3 35	0.8
23	—	—	—	—	—	—	—	20 9	2.9	3 55	0.9
24	16 22 10	130	−23 3.0	− 7.8	54.3	0 17.7	2.00	21 16	2.7	4 20	1.2
25	17 15 12	135	−25 35.2	− 4.8	54.1	1 6.7	2.07	22 18	2.4	4 52	1.5
26	18 9 40	137	−26 53.1	− 1.6	54.0	1 57.0	2.12	23 10	2.0	5 34	2.0
27	19 4 37	137	−26 51.8	+ 1.7	54.1	2 47.9	2.11	23 52	1.5	6 27	2.4
28	19 58 58	134	−25 31.5	+ 4.9	54.2	3 38.2	2.07	—	—	7 29	2.7
29	20 51 54	130	−22 57.3	+ 7.9	54.5	4 27.0	2.00	0 24	1.2	8 37	2.9
30	21 43 3	126	−19 17.2	+10.4	55.0	5 14.1	1.92	0 49	0.9	9 48	3.0
31	22 32 34	122	−14 41.2	+12.5	55.6	5 59.6	1.87	1 9	0.8	11 1	3.0
Juni 1	23 21 4	121	− 9 19.6	+14.2	56.4	6 44.0	1.84	1 26	0.7	12 14	3.1
2	0 9 30	122	− 3 23.3	+15.4	57.3	7 28.4	1.87	1 42	0.6	13 30	3.2
3	0 59 1	126	+ 2 54.8	+16.0	58.3	8 13.8	1.93	1 57	0.6	14 47	3.3
4	1 51 0	134	+ 9 18.1	+15.8	59.3	9 1.7	2.06	2 13	0.7	16 9	3.5
5	2 46 50	146	+15 24.3	+14.5	60.1	9 53.5	2.26	2 31	0.9	17 36	3.7
6	3 47 42	159	+20 44.1	+11.9	60.8	10 50.2	2.48	2 55	1.2	19 5	3.7
7	4 53 50	171	+24 42.7	+ 7.8	61.2	11 52.3	2.68	3 27	1.6	20 33	3.4
8	6 3 55	178	+26 47.7	+ 2.5	61.3	12 58.2	2.79	4 12	2.2	21 50	2.9
9	7 14 54	176	+26 41.2	− 3.0	61.0	14 5.1	2.75	5 14	2.9	22 50	2.1
10	8 23 12	165	+24 28.2	− 7.9	60.4	15 9.3	2.58	6 31	3.4	23 32	1.5
11	9 26 29	151	+20 33.5	−11.5	59.6	16 8.4	2.34	7 56	3.5	—	—
12	10 24 10	138	+15 29.3	−13.7	58.7	17 2.0	2.13	9 21	3.5	0 2	1.1
13	11 17 2	127	+ 9 45.0	−14.8	57.8	17 50.8	1.95	10 42	3.3	0 24	0.8

Tag	Scheinbare Rektaszension	Diff.	Scheinbare Deklination	Diff.	Parallaxe	Diff.	Halbmesser	Diff.	Länge	Breite
	0ʰ Welt-Zeit									
1929										
Juni 13	10ʰ 39ᵐ 26ˢ	50ᵐ 8ˢ	+13° 55′.6	5° 39′.5	58′ 25″.1	52″.1	15′ 56″.5	14″.2	156°.173	+5°.037
14	11 29 34	47 16	+ 8 16.1	5 51.6	57 33.0	48.6	15 42.3	13.2	169.745	+4.575
15	12 16 50	45 38	+ 2 24.5	5 48.3	56 44.4	43.1	15 29.1	11.7	182.902	+3.884
16	13 2 28	45 9	− 3 23.8	5 32.8	56 1.3	36.4	15 17.4	10.0	195.694	+3.015
17	13 47 37	45 39	− 8 56.6	5 6.3	55 24.9	29.7	15 7.4	8.0	208.180	+2.021
18	14 33 16	46 56	−14 2.9	4 29.4	54 55.2	23.0	14 59.4	6.3	220.427	+0.954
19	15 20 12	48 43	−18 32.3	3 41.6	54 32.2	16.8	14 53.1	4.6	232.496	−0.139
20	16 8 55	50 37	−22 13.9	2 43.7	54 15.4	11.0	14 48.5	3.0	244.443	−1.214
21	16 59 32	52 13	−24 57.6	1 36.8	54 4.4	5.6	14 45.5	1.5	256.315	−2.226
22	17 51 45	53 2	−26 34.4	0 24.0	53 58.8	0.2	14 44.0	0.1	268.152	−3.137
23	18 44 47	52 53	−26 58.4	0 50.5	53 58.6	5.3	14 43.9	1.5	279.989	−3.911
24	19 37 40	51 48	−26 7.9	2 1.9	54 3.9	11.1	14 45.4	3.0	291.856	−4.516
25	20 29 28	50 8	−24 6.0	3 6.5	54 15.0	17.6	14 48.4	4.8	303.784	−4.927
26	21 19 36	48 19	−20 59.5	4 1.9	54 32.6	24.5	14 53.2	6.7	315.808	−5.124
27	22 7 55	46 50	−16 57.6	4 47.2	54 57.1	31.9	14 59.9	8.6	327.966	−5.094
28	22 54 45	45 59	−12 10.4	5 22.2	55 29.0	39.3	15 8.5	10.8	340.305	−4.830
29	23 40 44	46 3	− 6 48.2	5 46.6	56 8.3	46.2	15 19.3	12.5	352.878	−4.330
30	0 26 47	47 14	− 1 1.6	5 59.2	56 54.5	51.7	15 31.8	14.1	5.742	−3.603
Juli 1	1 14 1	49 39	+ 4 57.6	5 57.0	57 46.2	54.4	15 45.9	14.9	18.957	−2.667
2	2 3 40	53 17	+10 54.6	5 35.8	58 40.6	53.5	16 0.8	14.5	32.570	−1.554
3	2 56 57	57 58	+16 30.4	4 50.0	59 34.1	47.6	16 15.3	13.0	46.612	−0.317
4	3 54 55	62 55	+21 20.4	3 35.3	60 21.7	36.3	16 28.3	9.9	61.080	+0.976
5	4 57 50	66 51	+24 55.7	1 52.5	60 58.0	20.1	16 38.2	5.5	75.926	+2.234
6	6 4 41	68 20	+26 48.2	0 7.9	61 18.1	0.9	16 43.7	0.2	91.049	+3.357
7	7 13 1	66 40	+26 40.3	2 7.5	61 19.0	18.7	16 43.9	5.1	106.300	+4.248
8	8 19 41	62 36	+24 32.8	3 48.2	61 0.3	35.9	16 38.8	9.8	121.504	+4.836
9	9 22 17	57 39	+20 44.6	5 0.1	60 24.4	48.3	16 29.0	13.1	136.486	+5.081
10	10 19 56	53 1	+15 44.5	5 42.5	59 36.1	55.3	16 15.9	15.1	151.104	+4.986
11	11 12 57	49 25	+10 2.0	6 0.3	58 40.8	56.9	16 0.8	15.5	165.266	+4.585
12	12 2 22	47 6	+ 4 1.7	5 59.2	57 43.9	54.3	15 45.3	14.8	178.939	+3.931
13	12 49 28	45 59	− 1 57.5	5 43.7	56 49.6	48.4	15 30.5	13.2	192.139	+3.086
14	13 35 27	45 57	− 7 41.2	5 16.9	56 1.2	40.8	15 17.3	11.1	204.917	+2.110
15	14 21 24	46 49	−12 58.1	4 39.9	55 20.4	32.2	15 6.2	8.8	217.348	+1.060
16	15 8 13	48 20	−17 38.0	3 53.2	54 48.2	23.6	14 57.4	6.4	229.511	−0.017
17	15 56 33	50 8	−21 31.2	2 57.0	54 24.6	15.4	14 51.0	4.2	241.489	−1.074
18	16 46 41	51 49	−24 28.2	1 52.0	54 9.2	7.9	14 46.8	2.1	253.356	−2.073
19	17 38 30	52 54	−26 20.2	0 40.3	54 1.3	1.1	14 44.7	0.4	265.177	−2.976
20	18 31 24	53 5	−27 0.5	0 34.3	54 0.2	4.8	14 44.3	1.4	277.004	−3.749
21	19 24 29	52 16	−26 26.2	1 47.4	54 5.0	10.0	14 45.7	2.7	288.879	−4.361
22	20 16 45	50 45	−24 38.8	2 54.5	54 15.0	15.0	14 48.4	4.1	300.832	−4.784
23	21 7 30	48 54	−21 44.3	3 52.4	54 30.0	19.7	14 52.5	5.3	312.887	−4.997
24	21 56 24		−17 51.9		54 49.7		14 57.8		325.063	−4.986

Tag	Obere Kulmination in Greenwich							0^h Länge, $+50°$ Breite			
	AR.	Änderung für 1^h westl. Länge	Dekl.	Änderung für 1^h westl. Länge	Parallaxe	Zeit des Durchgangs	Änderung für 1^h westl. Länge	Aufgang	Änderung für 1^h westl. Länge	Untergang	Änderung für 1^h westl. Länge
1929	h m s	s	° ′	′	′	h m	m	h m	m	h m	m
Juni 13	11 17 2	127	+ 9 45.0	−14.8	57.8	17 50.8	1.95	10 42	3.3	0 24	0.8
14	12 6 23	120	+ 3 43.8	−15.1	56.9	18 36.1	1.84	11 59	3.1	0 42	0.7
15	12 53 39	117	− 2 16.8	−14.8	56.2	19 19.3	1.78	13 13	3.0	0 57	0.6
16	13 40 8	116	− 8 3.1	−14.0	55.5	20 1.7	1.77	14 25	3.0	1 11	0.6
17	14 27 1	118	−13 23.3	−12.6	55.0	20 44.6	1.81	15 36	3.0	1 26	0.6
18	15 15 11	123	−18 6.0	−10.8	54.6	21 28.7	1.88	16 48	3.0	1 41	0.7
19	16 5 17	128	−21 59.6	− 8.5	54.3	22 14.7	1.96	17 58	2.9	2 0	0.9
20	16 57 30	133	−24 52.4	− 5.8	54.1	23 2.8	2.05	19 7	2.8	2 24	1.1
21	17 51 29	137	−26 34.1	− 2.6	54.0	23 52.7	2.11	20 11	2.5	2 53	1.4
22	—	—	—	—	—	—	—	21 6	2.1	3 32	1.9
23	18 46 24	138	−26 57.9	+ 0.7	54.0	0 43.6	2.12	21 51	1.7	4 22	2.3
24	19 41 6	136	−26 2.0	+ 4.0	54.1	1 34.2	2.09	22 26	1.3	5 21	2.6
25	20 34 33	131	−23 50.1	+ 7.0	54.3	2 23.6	2.02	22 54	1.0	6 27	2.8
26	21 26 6	126	−20 30.4	+ 9.6	54.6	3 11.1	1.94	23 15	0.8	7 37	3.0
27	22 15 42	122	−16 13.3	+11.8	55.0	3 56.6	1.86	23 32	0.7	8 49	3.0
28	23 3 45	119	−11 10.1	+13.4	55.6	4 40.6	1.81	23 48	0.6	10 1	3.0
29	23 51 3	118	− 5 32.0	+14.7	56.3	5 23.8	1.80	—	—	11 14	3.1
30	0 38 41	121	+ 0 29.4	+15.4	57.1	6 7.4	1.84	0 2	0.6	12 28	3.1
Juli 1	1 27 57	126	+ 6 40.8	+15.5	58.0	6 52.6	1.93	0 17	0.7	13 45	3.3
2	2 20 16	136	+12 45.4	+14.8	59.0	7 40.8	2.09	0 34	0.8	15 7	3.5
3	3 17 3	149	+18 20.5	+13.0	59.9	8 33.5	2.31	0 54	1.0	16 33	3.6
4	4 19 19	163	+22 56.5	+ 9.8	60.6	9 31.7	2.54	1 21	1.3	18 1	3.6
5	5 26 57	175	+25 59.3	+ 5.2	61.2	10 35.2	2.73	1 58	1.9	19 24	3.2
6	6 38 1	179	+26 59.8	− 0.3	61.4	11 42.1	2.82	2 51	2.6	20 33	2.5
7	7 49 0	174	+25 46.2	− 5.8	61.2	12 49.0	2.73	4 2	3.2	21 24	1.8
8	8 56 27	162	+22 31.4	−10.3	60.7	13 52.3	2.53	5 26	3.6	22 0	1.3
9	9 58 31	148	+17 45.6	−13.3	59.9	14 50.3	2.30	6 54	3.6	22 26	1.0
10	10 55 6	136	+12 3.4	−15.0	59.0	15 42.8	2.08	8 20	3.5	22 46	0.8
11	11 47 16	126	+ 5 54.7	−15.6	58.0	16 30.9	1.93	9 42	3.3	23 2	0.6
12	12 36 25	120	− 0 17.7	−15.4	57.1	17 16.0	1.84	11 0	3.2	23 18	0.6
13	13 23 59	118	− 6 17.3	−14.5	56.2	17 59.5	1.80	12 14	3.0	23 32	0.6
14	14 11 14	119	−11 51.1	−13.2	55.5	18 42.7	1.81	13 26	3.0	23 48	0.7
15	14 59 14	122	−16 48.1	−11.5	54.9	19 26.6	1.86	14 38	3.0	—	—
16	15 48 47	126	−20 57.8	− 9.3	54.5	20 12.1	1.94	15 49	2.9	0 5	0.8
17	16 40 18	131	−24 9.4	− 6.6	54.2	20 59.5	2.02	16 58	2.8	0 27	1.0
18	17 33 43	135	−26 12.9	− 3.6	54.0	21 48.9	2.09	18 4	2.6	0 55	1.3
19	18 28 26	138	−27 0.2	− 0.3	54.0	22 39.5	2.12	19 2	2.2	1 30	1.7
20	19 23 23	137	−26 27.6	+ 3.0	54.1	23 30.4	2.11	19 50	1.8	2 17	2.1
21	—	—	—	—	—	—	—	20 28	1.4	3 13	2.5
22	20 17 29	133	−24 36.8	+ 6.2	54.3	0 20.4	2.05	20 58	1.1	4 18	2.8
23	21 9 53	128	−21 34.5	+ 8.9	54.5	1 8.7	1.97	21 20	0.9	5 28	3.0
24	22 0 13	123	−17 31.1	+11.2	54.9	1 55.0	1.89	21 39	0.7	6 40	3.0

Tag		Scheinbare Rektaszension h m s	Diff. m s	Scheinbare Deklination ° ′	Diff. ° ′	Parallaxe ′ ″	Diff. ″	Halbmesser ′ ″	Diff. ″	Länge °	Breite °
		0h Welt-Zeit									
1929											
Juli	24	21 56 24	47 10	−17 51.9	4 39.7	54 49.7	24.4	14 57.8	6.7	325.063	−4.986
	25	22 43 34	45 57	−13 12.2	5 15.6	55 14.1	29.3	15 4.5	8.0	337.381	−4.744
	26	23 29 31	45 31	− 7 56.6	5 39.9	55 43.4	34.2	15 12.5	9.3	349.864	−4.273
	27	0 15 2	46 5	− 2 16.7	5 52.4	56 17.6	39.1	15 21.8	10.7	2.544	−3.585
	28	1 1 7	47 46	+ 3 35.7	5 51.4	56 56.7	43.2	15 32.5	11.7	15.459	−2.702
	29	1 48 53	50 39	+ 9 27.1	5 34.4	57 39.9	45.7	15 44.2	12.5	28.653	−1.657
	30	2 39 32	54 38	+15 1.5	4 57.5	58 25.6	45.7	15 56.7	12.4	42.171	−0.494
	31	3 34 10	59 20	+19 59.0	3 56.1	59 11.3	42.3	16 9.1	11.6	56.049	+0.728
Aug.	1	4 33 30	63 46	+23 55.1	2 28.6	59 53.6	34.6	16 20.7	9.4	70.300	+1.936
	2	5 37 16	66 40	+26 23.7	0 39.1	60 28.2	22.4	16 30.1	6.0	84.904	+3.046
	3	6 43 56	66 54	+27 2.8	1 19.7	60 50.6	6.6	16 36.1	1.9	99.794	+3.970
	4	7 50 50	64 26	+25 43.1	3 10.3	60 57.2	10.9	16 38.0	3.0	114.853	+4.629
	5	8 55 16	60 16	+22 32.8	4 38.1	60 46.3	27.8	16 35.0	7.6	129.930	+4.966
	6	9 55 32	55 47	+17 54.7	5 36.5	60 18.5	41.6	16 27.4	11.3	144.855	+4.961
	7	10 51 19	51 53	+12 18.2	6 6.5	59 36.9	51.0	16 16.1	13.9	159.477	+4.629
	8	11 43 12	49 5	+ 6 11.7	6 12.9	58 45.9	55.1	16 2.2	15.0	173.685	+4.015
	9	12 32 17	47 27	− 0 1.2	6 0.9	57 50.8	54.4	15 47.2	14.9	187.421	+3.184
	10	13 19 44	46 56	− 6 2.1	5 34.8	56 56.4	50.0	15 32.3	13.6	200.681	+2.205
	11	14 6 40	47 21	−11 36.9	4 57.3	56 6.4	42.7	15 18.7	11.6	213.503	+1.142
	12	14 54 1	48 29	−16 34.2	4 10.1	55 23.7	33.7	15 7.1	9.2	225.956	+0.053
	13	15 42 30	50 2	−20 44.3	3 13.8	54 50.0	24.1	14 57.9	6.5	238.122	−1.013
	14	16 32 32	51 37	−23 58.1	2 9.3	54 25.9	14.5	14 51.4	4.0	250.091	−2.017
	15	17 24 9	52 46	−26 7.4	0 58.3	54 11.4	5.3	14 47.4	1.4	261.948	−2.923
	16	18 16 55	53 10	−27 5.7	0 16.5	54 6.1	3.0	14 46.0	0.8	273.772	−3.699
	17	19 10 5	52 40	−26 49.2	1 30.8	54 9.1	10.0	14 46.8	2.7	285.631	−4.316
	18	20 2 45	51 22	−25 18.4	2 40.6	54 19.1	15.9	14 49.5	4.3	297.578	−4.748
	19	20 54 7	49 40	−22 37.8	3 42.5	54 35.0	20.5	14 53.8	5.6	309.652	−4.973
	20	21 43 47	47 56	−18 55.3	4 33.9	54 55.5	24.0	14 59.4	6.6	321.879	−4.973
	21	22 31 43	46 35	−14 21.4	5 13.4	55 19.5	26.7	15 6.0	7.2	334.272	−4.740
	22	23 18 18	45 53	− 9 8.0	5 40.4	55 46.2	28.8	15 13.2	7.9	346.838	−4.274
	23	0 4 11	46 3	− 3 27.6	5 54.5	56 15.0	30.4	15 21.1	8.3	359.581	−3.589
	24	0 50 14	47 14	+ 2 26.9	5 54.2	56 45.4	31.8	15 29.4	8.6	12.506	−2.710
	25	1 37 28	49 29	+ 8 21.1	5 38.4	57 17.2	32.9	15 38.0	9.0	25.625	−1.673
	26	2 26 57	52 46	+13 59.5	5 4.0	57 50.1	33.2	15 47.0	9.0	38.955	−0.526
	27	3 19 43	56 47	+19 3.5	4 8.6	58 23.3	32.4	15 56.0	8.9	52.520	+0.672
	28	4 16 30	60 53	+23 12.1	2 50.4	58 55.7	29.8	16 4.9	8.1	66.340	+1.853
	29	5 17 23	64 2	+26 2.5	1 11.5	59 25.5	24.6	16 13.0	6.7	80.426	+2.945
	30	6 21 25	65 10	+27 14.0	0 39.7	59 50.1	16.5	16 19.7	4.5	94.769	+3.872
	31	7 26 35	63 56	+26 34.3	2 29.8	60 6.6	5.7	16 24.2	1.5	109.326	+4.563
Sept.	1	8 30 31	60 50	+24 4.5	4 5.0	60 12.3	7.2	16 25.7	1.9	124.022	+4.961
	2	9 31 21	56 58	+19 59.5	5 16.2	60 5.1	20.5	16 23.8	5.6	138.746	+5.032
	3	10 28 19		+14 43.3		59 44.6		16 18.2		153.368	+4.774

Tag	Obere Kulmination in Greenwich							0h Länge, + 50° Breite			
	AR.	Änderung für 1h westl. Länge	Dekl.	Änderung für 1h westl. Länge	Parallaxe	Zeit des Durchgangs	Änderung für 1h westl. Länge	Aufgang	Änderung für 1h westl. Länge	Untergang	Änderung für 1h westl. Länge
1929	h m s	s	° ′	′	′	h m	m	h m	m	h m	m
Juli 24	22 0 13	123	−17 31.1	+11.2	54.9	1 55.0	1.89	21 39	0.7	6 40	3.0
25	22 48 42	119	−12 38.8	+13.0	55.3	2 39.4	1.82	21 54	0.6	7 52	3.0
26	23 35 55	117	− 7 10.0	+14.3	55.8	3 22.6	1.78	22 9	0.6	9 4	3.0
27	0 22 49	118	− 1 17.1	+15.0	56.4	4 5.4	1.80	22 23	0.6	10 17	3.1
28	1 10 32	121	+ 4 46.8	+15.2	57.1	4 49.1	1.85	22 38	0.7	11 31	3.2
29	2 0 22	128	+10 47.0	+14.7	57.8	5 34.8	1.97	22 56	0.9	12 49	3.3
30	2 53 41	139	+16 25.4	+13.3	58.6	6 24.1	2.14	23 19	1.1	14 11	3.5
31	3 51 43	152	+21 18.5	+10.9	59.4	7 18.0	2.36	23 50	1.6	15 35	3.5
Aug. 1	4 55 4	165	+24 57.6	+ 7.2	60.1	8 17.2	2.57	—	—	16 59	3.3
2	6 3 2	174	+26 52.9	+ 2.3	60.6	9 21.1	2.73	0 34	2.2	18 13	2.8
3	7 13 13	175	+26 42.6	− 3.2	60.9	10 27.2	2.75	1 36	2.9	19 12	2.1
4	8 22 15	168	+24 24.3	− 8.2	60.9	11 32.1	2.63	2 54	3.4	19 55	1.5
5	9 27 21	157	+20 16.5	−12.2	60.6	12 33.1	2.44	4 21	3.7	20 25	1.1
6	10 27 24	144	+14 51.0	−14.7	59.9	13 29.0	2.23	5 50	3.6	20 48	0.9
7	11 22 43	133	+ 8 41.2	−15.9	59.1	14 20.2	2.05	7 16	3.5	21 6	0.7
8	12 14 24	126	+ 2 16.0	−16.0	58.2	15 7.9	1.93	8 38	3.3	21 22	0.6
9	13 3 49	122	− 4 2.4	−15.4	57.2	15 53.2	1.86	9 55	3.2	21 36	0.6
10	13 52 15	121	− 9 57.5	−14.1	56.4	16 37.6	1.85	11 10	3.1	21 52	0.7
11	14 40 51	122	−15 16.4	−12.4	55.6	17 22.1	1.87	12 24	3.1	22 9	0.8
12	15 30 30	126	−19 48.0	−10.2	55.0	18 7.7	1.93	13 37	3.0	22 29	1.0
13	16 21 48	130	−23 22.2	− 7.6	54.5	18 54.9	2.00	14 48	2.9	22 55	1.2
14	17 14 52	135	−25 49.4	− 4.6	54.2	19 43.9	2.08	15 56	2.7	23 28	1.6
15	18 9 20	137	−27 1.9	− 1.4	54.1	20 34.3	2.12	16 57	2.3	—	—
16	19 4 23	138	−26 54.6	+ 2.0	54.1	21 25.3	2.12	17 48	1.9	0 11	2.0
17	19 58 58	135	−25 27.4	+ 5.2	54.3	22 15.8	2.09	18 29	1.5	1 4	2.4
18	20 52 11	131	−22 45.1	+ 8.2	54.6	23 4.9	2.01	19 1	1.2	2 7	2.7
19	21 43 31	126	−18 56.6	+10.7	54.9	23 52.2	1.93	19 25	0.9	3 16	2.9
20	—	—	—	—	—	—	—	19 45	0.8	4 28	3.0
21	22 32 57	121	−14 13.7	+12.7	55.3	0 37.5	1.85	20 1	0.6	5 41	3.0
22	23 20 54	119	− 8 49.4	+14.2	55.8	1 21.4	1.81	20 16	0.6	6 54	3.1
23	0 8 9	118	− 2 57.3	+15.1	56.3	2 4.6	1.79	20 30	0.6	8 8	3.1
24	0 55 40	120	+ 3 8.5	+15.3	56.8	2 48.1	1.84	20 45	0.7	9 22	3.1
25	1 44 37	125	+ 9 12.6	+14.9	57.4	3 33.0	1.92	21 2	0.8	10 38	3.3
26	2 36 14	133	+14 57.6	+13.7	57.9	4 20.5	2.05	21 22	1.0	11 58	3.4
27	3 31 39	144	+20 2.8	+11.6	58.5	5 11.8	2.23	21 49	1.3	13 20	3.4
28	4 31 41	156	+24 4.0	+ 8.3	59.1	6 7.8	2.43	22 26	1.9	14 43	3.3
29	5 36 10	166	+26 34.9	+ 4.1	59.6	7 8.1	2.59	23 19	2.5	15 59	2.9
30	6 43 39	170	+27 13.2	− 0.9	59.9	8 11.5	2.67	—	—	17 2	2.3
31	7 51 30	168	+25 49.0	− 6.0	60.2	9 15.2	2.63	0 28	3.2	17 50	1.7
Sept. 1	8 57 1	159	+22 30.0	−10.4	60.2	10 16.6	2.48	1 51	3.6	18 24	1.2
2	9 58 30	148	+17 38.7	−13.6	60.0	11 14.0	2.30	3 19	3.6	18 48	0.9
3	10 55 39	138	+11 45.2	−15.6	59.5	12 7.1	2.13	4 46	3.6	19 9	0.8

Tag	Scheinbare Rektaszension		Scheinbare Deklination		Parallaxe		Halbmesser		Länge	Breite
	0h Welt-Zeit									
1929	h m s	m s	° ′	° ′	′ ″	″	′ ″	″	°	°
Sept. 3	10 28 19	53 19	+14 43.3	6 0.3	59 44.6	32.6	16 18.2	8.9	153.368	+4.774
4	11 21 38	50 29	+ 8 43.0	6 19.0	59 12.0	42.1	16 9.3	11.5	167.763	+4.214
5	12 12 7	48 41	+ 2 24.0	6 15.9	58 29.9	47.6	15 57.8	12.9	181.825	+3.408
6	13 0 48	47 55	− 3 51.9	5 55.1	57 42.3	49.1	15 44.9	13.4	195.489	+2.423
7	13 48 43	48 5	− 9 47.0	5 20.0	56 53.2	46.6	15 31.5	12.7	208.731	+1.333
8	14 36 48	48 57	−15 7.0	4 33.3	56 6.6	41.0	15 18.8	11.2	221.570	+0.204
9	15 25 45	50 18	−19 40.3	3 36.7	55 25.6	33.0	15 7.6	9.0	234.053	−0.906
10	16 16 3	51 42	−23 17.0	2 31.6	54 52.6	23.4	14 58.6	6.3	246.251	−1.951
11	17 7 45	52 49	−25 48.6	1 20.3	54 29.2	13.3	14 52.3	3.7	258.246	−2.892
12	18 0 34	53 15	−27 8.9	0 5.3	54 15.9	3.1	14 48.6	0.8	270.125	−3.698
13	18 53 49	52 53	−27 14.2	1 10.0	54 12.8	6.7	14 47.8	1.8	281.975	−4.344
14	19 46 42	51 47	−26 4.2	2 21.9	54 19.5	15.2	14 49.6	4.2	293.872	−4.804
15	20 38 29	50 13	−23 42.3	3 26.9	54 34.7	22.4	14 53.8	6.0	305.885	−5.058
16	21 28 42	48 35	−20 15.4	4 22.9	54 57.1	27.7	14 59.8	7.6	318.069	−5.087
17	22 17 17	47 15	−15 52.5	5 7.9	55 24.8	31.2	15 7.4	8.5	330.460	−4.881
18	23 4 32	46 31	−10 44.6	5 40.7	55 56.0	32.6	15 15.9	8.9	343.079	−4.435
19	23 51 3	46 35	− 5 3.9	6 0.0	56 28.6	32.1	15 24.8	8.7	355.932	−3.757
20	0 37 38	47 33	+ 0 56.1	6 4.0	57 0.7	30.3	15 33.5	8.3	9.011	−2.870
21	1 25 11	49 33	+ 7 0.1	5 51.0	57 31.0	27.5	15 41.8	7.5	22.298	−1.812
22	2 14 44	52 28	+12 51.1	5 18.7	57 58.5	24.0	15 49.3	6.5	35.775	−0.637
23	3 7 12	56 4	+18 9.8	4 25.0	58 22.5	20.5	15 55.8	5.6	49.422	+0.592
24	4 3 16	59 45	+22 34.8	3 9.5	58 43.0	16.8	16 1.4	4.6	63.226	+1.803
25	5 3 1	62 37	+25 44.3	1 34.7	58 59.8	12.9	16 6.0	3.5	77.175	+2.920
26	6 5 38	63 47	+27 19.0	0 11.9	59 12.7	8.6	16 9.5	2.3	91.255	+3.872
27	7 9 25	62 50	+27 7.1	1 58.6	59 21.3	3.2	16 11.8	0.9	105.447	+4.595
28	8 12 15	60 9	+25 8.5	3 34.2	59 24.5	3.1	16 12.7	0.8	119.721	+5.039
29	9 12 24	56 40	+21 34.3	4 49.9	59 21.4	10.6	16 11.9	2.9	134.027	+5.172
30	10 9 4	53 17	+16 44.4	5 42.4	59 10.8	18.8	16 9.0	5.1	148.302	+4.985
Okt. 1	11 2 21	50 35	+11 2.0	6 11.5	58 52.0	26.6	16 3.9	7.3	162.469	+4.493
2	11 52 56	48 50	+ 4 50.5	6 19.1	58 25.4	33.5	15 56.6	9.1	176.450	+3.738
3	12 41 46	48 5	− 1 28.6	6 7.6	57 51.9	38.2	15 47.5	10.4	190.176	+2.777
4	13 29 51	48 15	− 7 36.2	5 39.6	57 13.7	40.3	15 37.1	11.0	203.596	+1.680
5	14 18 6	49 7	−13 15.8	4 57.3	56 33.4	39.4	15 26.1	10.7	216.684	+0.518
6	15 7 13	50 28	−18 13.1	4 2.8	55 54.0	35.6	15 15.4	9.7	229.443	−0.644
7	15 57 41	51 53	−22 15.9	2 58.3	55 18.4	29.4	15 5.7	8.0	241.899	−1.750
8	16 49 34	53 1	−25 14.2	1 46.5	54 49.0	21.1	14 57.7	5.8	254.101	−2.754
9	17 42 35	53 28	−27 0.7	0 30.7	54 27.9	11.5	14 51.9	3.1	266.113	−3.621
10	18 36 3	53 7	−27 31.4	0 45.6	54 16.4	1.2	14 48.8	0.4	278.010	−4.323
11	19 29 10	52 1	−26 45.8	1 58.6	54 15.2	9.3	14 48.4	2.6	289.872	−4.838
12	20 21 11	50 26	−24 47.2	3 5.4	54 24.5	19.3	14 51.0	5.2	301.781	−5.148
13	21 11 37	48 47	−21 41.8	4 4.2	54 43.8	28.2	14 56.2	7.7	313.814	−5.236
14	22 0 24		−17 37.6		55 12.0		15 3.9		326.042	−5.091

Tag	Obere Kulmination in Greenwich AR.	Änderung für 1h westl. Länge	Dekl.	Änderung für 1h westl. Länge	Parallaxe	Zeit des Durchgangs	Änderung für 1h westl. Länge	0h Länge, +50° Breite Aufgang	Änderung für 1h westl. Länge	Untergang	Änderung für 1h westl. Länge
1929	h m s	s	° ′	′	′	h m	m	h m	m	h m	m
Sept. 3	10 55 39	138	+11 45.2	−15.6	59.5	12 7.1	2.13	4 46	3.6	19 9	0.8
4	11 49 9	130	+ 5 19.4	−16.4	58.8	12 56.5	2.00	6 10	3.4	19 25	0.7
5	12 40 7	125	− 1 12.5	−16.2	58.1	13 43.4	1.92	7 31	3.3	19 41	0.6
6	13 29 45	123	− 7 29.6	−15.2	57.2	14 29.0	1.88	8 49	3.2	19 56	0.6
7	14 19 10	124	−13 15.0	−13.5	56.4	15 14.3	1.90	10 5	3.1	20 12	0.7
8	15 9 19	127	−18 15.1	−11.4	55.6	16 0.4	1.95	11 20	3.1	20 31	0.9
9	16 0 48	131	−22 18.4	− 8.8	55.0	16 47.8	2.01	12 34	3.0	20 54	1.1
10	16 53 52	135	−25 15.0	− 5.9	54.6	17 36.8	2.07	13 44	2.8	21 25	1.5
11	17 48 17	137	−26 57.0	− 2.6	54.3	18 27.2	2.12	14 48	2.5	22 4	1.8
12	18 43 24	138	−27 19.1	+ 0.8	54.2	19 18.2	2.13	15 44	2.1	22 53	2.3
13	19 38 17	136	−26 20.4	+ 4.1	54.3	20 9.0	2.10	16 28	1.6	23 53	2.7
14	20 32 2	132	−24 4.0	+ 7.2	54.5	20 58.7	2.04	17 3	1.3	—	—
15	21 24 7	128	−20 37.1	+10.0	54.9	21 46.7	1.96	17 30	1.0	1 1	2.9
16	22 14 23	124	−16 9.8	+12.2	55.4	22 32.9	1.89	17 51	0.8	2 12	3.0
17	23 3 10	121	−10 54.2	+14.0	55.9	23 17.6	1.84	18 8	0.7	3 26	3.1
18	—	—	—	—	—	—	—	18 23	0.6	4 40	3.1
19	23 51 6	120	− 5 3.5	+15.1	56.5	0 1.5	1.82	18 37	0.6	5 54	3.1
20	0 39 6	121	+ 1 7.6	+15.7	57.0	0 45.4	1.84	18 52	0.6	7 9	3.2
21	1 28 14	125	+ 7 22.7	+15.5	57.5	1 30.5	1.92	19 8	0.7	8 27	3.3
22	2 19 37	132	+13 23.3	+14.4	58.0	2 17.8	2.03	19 26	0.9	9 47	3.4
23	3 14 19	142	+18 48.0	+12.5	58.4	3 8.4	2.19	19 51	1.2	11 10	3.4
24	4 13 6	152	+23 12.7	+ 9.4	58.8	4 3.1	2.37	20 25	1.7	12 32	3.3
25	5 15 57	162	+26 12.5	+ 5.4	59.0	5 1.8	2.52	21 12	2.3	13 50	3.0
26	6 21 43	166	+27 26.3	+ 0.7	59.3	6 3.5	2.60	22 14	2.9	14 57	2.5
27	7 28 11	165	+26 42.9	− 4.3	59.4	7 5.8	2.58	23 31	3.4	15 48	1.8
28	8 32 56	158	+24 5.9	− 8.7	59.4	8 6.5	2.46	—	—	16 25	1.3
29	9 34 13	148	+19 52.5	−12.2	59.3	9 3.7	2.30	0 55	3.5	16 52	1.0
30	10 31 32	138	+14 27.5	−14.7	59.1	9 56.9	2.14	2 21	3.5	17 13	0.8
Okt. 1	11 25 20	131	+ 8 17.4	−16.0	58.7	10 46.6	2.02	3 45	3.4	17 30	0.7
2	12 16 37	126	+ 1 47.5	−16.3	58.2	11 33.8	1.93	5 6	3.3	17 45	0.6
3	13 6 30	124	− 4 40.0	−15.8	57.5	12 19.6	1.90	6 24	3.3	18 0	0.6
4	13 56 5	124	−10 45.8	−14.6	56.9	13 5.2	1.90	7 42	3.2	18 16	0.7
5	14 46 19	127	−16 13.5	−12.6	56.2	13 51.3	1.95	8 58	3.2	18 33	0.8
6	15 37 50	131	−20 48.5	−10.2	55.5	14 38.8	2.01	10 14	3.1	18 54	1.0
7	16 30 58	135	−24 18.7	− 7.3	55.0	15 27.8	2.08	11 27	3.0	19 22	1.3
8	17 25 30	138	−26 34.7	− 4.0	54.6	16 18.3	2.12	12 36	2.7	19 57	1.7
9	18 20 49	139	−27 30.5	− 0.6	54.3	17 9.5	2.14	13 36	2.3	20 43	2.1
10	19 16 0	137	−27 4.2	+ 2.8	54.2	18 0.6	2.11	14 25	1.8	21 39	2.5
11	20 10 8	133	−25 18.5	+ 6.0	54.4	18 50.7	2.05	15 4	1.4	22 43	2.8
12	21 2 36	129	−22 20.0	+ 8.8	54.7	19 39.0	1.97	15 33	1.1	23 53	3.0
13	21 53 14	124	−18 17.3	+11.3	55.1	20 25.6	1.91	15 55	0.9	—	—
14	22 42 18	121	−13 20.9	+13.3	55.7	21 10.6	1.85	16 14	0.7	1 6	3.0

Tag	0h Welt-Zeit									
	Scheinbare Rektaszension		Scheinbare Deklination		Parallaxe		Halbmesser		Länge	Breite
1929	h m s	m s	° ′	° ′	′ ″	″	′ ″	″	°	°
Okt. 14	22 0 24	47 25	−17 37.6	4 53.4	55 12.0	35.2	15 3.9	9.6	326.042	−5.091
15	22 47 49	46 40	−12 44.2	5 32.2	55 47.2	39.9	15 13.5	10.9	338.522	−4.704
16	23 34 29	46 42	− 7 12.0	5 58.8	56 27.1	41.6	15 24.4	11.3	351.293	−4.078
17	0 21 11	47 41	− 1 13.2	6 11.0	57 8.7	40.3	15 35.7	11.0	4.376	−3.226
18	1 8 52	49 41	+ 4 57.8	6 5.9	57 49.0	35.9	15 46.7	9.8	17.768	−2.177
19	1 58 33	52 40	+11 3.7	5 40.2	58 24.9	29.0	15 56.5	7.9	31.445	−0.981
20	2 51 13	56 22	+16 43.9	4 50.8	58 53.9	20.5	16 4.4	5.6	45.362	+0.294
21	3 47 35	60 11	+21 34.7	3 36.9	59 14.4	11.6	16 10.0	3.1	59.465	+1.570
22	4 47 46	63 8	+25 11.6	2 1.5	59 26.0	3.2	16 13.1	0.9	73.689	+2.760
23	5 50 54	64 17	+27 13.1	0 13.2	59 29.2	4.0	16 14.0	1.1	87.973	+3.784
24	6 55 11	63 12	+27 26.3	1 35.5	59 25.2	9.9	16 12.9	2.7	102.260	+4.573
25	7 58 23	60 16	+25 50.8	3 12.4	59 15.3	14.3	16 10.2	3.9	116.501	+5.079
26	8 58 39	56 31	+22 38.4	4 29.6	59 1.0	17.9	16 6.3	4.9	130.656	+5.273
27	9 55 10	52 54	+18 8.8	5 24.5	58 43.1	21.1	16 1.4	5.7	144.691	+5.152
28	10 48 4	50 2	+12 44.3	5 57.9	58 22.0	23.9	15 55.7	6.5	158.577	+4.729
29	11 38 6	48 10	+ 6 46.4	6 11.9	57 58.1	26.8	15 49.2	7.3	172.288	+4.041
30	12 26 16	47 21	+ 0 34.5	6 8.0	57 31.3	29.2	15 41.9	8.0	185.799	+3.136
31	13 13 37	47 32	− 5 33.5	5 48.0	57 2.1	31.1	15 33.9	8.5	199.089	+2.075
Nov. 1	14 1 9	48 29	−11 21.5	5 13.1	56 31.0	31.8	15 25.4	8.6	212.144	+0.921
2	14 49 38	50 0	−16 34.6	4 24.4	55 59.2	30.9	15 16.8	8.4	224.954	−0.258
3	15 39 38	51 39	−20 59.0	3 23.5	55 28.3	28.2	15 8.4	7.7	237.524	−1.403
4	16 31 17	53 2	−24 22.5	2 13.2	55 0.1	23.6	15 0.7	6.4	249.868	−2.462
5	17 24 19	53 43	−26 35.7	0 57.1	54 36.5	17.1	14 54.3	4.7	262.015	−3.392
6	18 18 2	53 28	−27 32.8	0 20.2	54 19.4	8.9	14 49.6	2.4	274.007	−4.159
7	19 11 30	52 20	−27 12.6	1 34.6	54 10.5	0.4	14 47.2	0.1	285.898	−4.741
8	20 3 50	50 36	−25 38.0	2 42.4	54 10.9	10.6	14 47.3	2.9	297.751	−5.119
9	20 54 26	48 44	−22 55.6	3 42.1	54 21.5	21.1	14 50.2	5.7	309.640	−5.279
10	21 43 10	47 8	−19 13.5	4 32.7	54 42.6	31.2	14 55.9	8.5	321.641	−5.212
11	22 30 18	46 7	−14 40.8	5 14.2	55 13.8	40.1	15 4.4	10.9	333.832	−4.912
12	23 16 25	45 56	− 9 26.6	5 45.5	55 53.9	46.9	15 15.3	12.8	346.288	−4.378
13	0 2 21	46 46	− 3 41.1	6 5.2	56 40.8	50.8	15 28.1	13.9	359.072	−3.615
14	0 49 7	48 43	+ 2 24.1	6 10.5	57 31.6	50.8	15 42.0	13.8	12.231	−2.643
15	1 37 50	51 47	+ 8 34.6	5 56.7	58 22.4	46.3	15 55.8	12.6	25.789	−1.496
16	2 29 37	55 51	+14 31.3	5 18.9	59 8.7	37.4	16 8.4	10.2	39.737	−0.229
17	3 25 28	60 21	+19 50.2	4 13.6	59 46.1	25.1	16 18.6	6.8	54.029	+1.083
18	4 25 49	64 14	+24 3.8	2 40.9	60 11.2	10.8	16 25.4	3.0	68.588	+2.347
19	5 30 3	66 16	+26 44.7	0 48.8	60 22.0	3.5	16 28.4	1.0	83.306	+3.468
20	6 36 19	65 34	+27 33.5	1 8.1	60 18.5	16.0	16 27.4	4.3	98.063	+4.362
21	7 41 53	62 31	+26 25.4	2 53.5	60 2.5	25.5	16 23.1	7.0	112.743	+4.964
22	8 44 24	58 12	+23 31.9	4 17.1	59 37.0	31.7	16 16.1	8.6	127.247	+5.240
23	9 42 36	53 52	+19 14.8	5 15.3	59 5.3	34.8	16 7.5	9.5	141.505	+5.188
24	10 36 28		+13 59.5		58 30.5		15 58.0		155.480	+4.828

Tag	Obere Kulmination in Greenwich							0^h Länge, $+50°$ Breite			
	AR.	Änderung für 1^h westl. Länge	Dekl.	Änderung für 1^h westl. Länge	Parallaxe	Zeit des Durchgangs	Änderung für 1^h westl. Länge	Aufgang	Änderung für 1^h westl. Länge	Untergang	Änderung für 1^h westl. Länge
1929	h m s	s	° ′	′	′	h m	m	h m	m	h m	m
Okt. 14	22 42 18	121	−13 20.9	+13.3	55.7	21 10.6	1.85	16 14	0.7	1 6	3.0
15	23 30 26	120	− 7 42.2	+14.8	56.4	21 54.7	1.83	16 29	0.6	2 19	3.1
16	0 18 32	121	− 1 34.0	+15.8	57.1	22 38.7	1.85	16 44	0.6	3 34	3.1
17	1 7 39	125	+ 4 48.4	+16.0	57.8	23 23.8	1.91	16 58	0.6	4 49	3.2
18	—	—	—	—	—	—	—	17 13	0.7	6 7	3.3
19	1 58 56	132	+11 6.4	+15.4	58.4	0 11.0	2.03	17 31	0.9	7 28	3.4
20	2 53 33	142	+16 57.5	+13.7	58.9	1 1.5	2.19	17 54	1.1	8 52	3.5
21	3 52 18	152	+21 55.3	+10.9	59.3	1 56.2	2.37	18 24	1.5	10 18	3.5
22	4 55 18	162	+25 31.8	+ 7.0	59.4	2 55.1	2.53	19 7	2.1	11 40	3.2
23	6 1 28	168	+27 22.9	+ 2.2	59.5	3 57.1	2.63	20 6	2.7	12 52	2.7
24	7 8 31	166	+27 15.1	− 2.8	59.4	5 0.1	2.60	21 19	3.2	13 48	2.0
25	8 13 49	159	+25 10.9	− 7.4	59.2	6 1.3	2.49	22 41	3.5	14 29	1.5
26	9 15 29	149	+21 27.0	−11.1	58.9	6 58.8	2.31	—	—	14 58	1.1
27	10 12 53	138	+16 27.4	−13.7	58.6	7 52.1	2.14	0 5	3.5	15 20	0.8
28	11 6 28	130	+10 37.4	−15.3	58.2	8 41.6	2.00	1 28	3.4	15 37	0.7
29	11 57 16	124	+ 4 20.2	−16.0	57.8	9 28.4	1.91	2 48	3.3	15 52	0.6
30	12 46 28	122	− 2 3.7	−15.9	57.3	10 13.5	1.87	4 6	3.2	16 6	0.6
31	13 35 16	122	− 8 16.0	−15.0	56.8	10 58.2	1.87	5 22	3.2	16 21	0.6
Nov. 1	14 24 40	125	−13 59.7	−13.5	56.3	11 43.6	1.91	6 38	3.2	16 37	0.8
2	15 15 29	129	−18 59.2	−11.4	55.7	12 30.3	1.98	7 54	3.1	16 57	0.9
3	16 8 5	134	−23 0.1	− 8.6	55.2	13 18.8	2.06	9 9	3.0	17 21	1.1
4	17 2 25	138	−25 50.0	− 5.5	54.8	14 9.1	2.12	10 20	2.8	17 53	1.5
5	17 57 53	139	−27 20.5	− 2.0	54.4	15 0.5	2.15	11 25	2.5	18 34	1.9
6	18 53 28	138	−27 28.0	+ 1.4	54.2	15 52.0	2.13	12 19	2.0	19 26	2.4
7	19 48 6	135	−26 14.3	+ 4.7	54.2	16 42.5	2.08	13 2	1.6	20 28	2.7
8	20 40 58	130	−23 45.7	+ 7.6	54.3	17 31.3	1.99	13 34	1.2	21 35	2.9
9	21 31 46	125	−20 11.2	+10.2	54.6	18 18.0	1.91	13 59	0.9	22 46	3.0
10	22 20 41	120	−15 40.7	+12.3	55.1	19 2.9	1.84	14 18	0.7	23 58	3.0
11	23 8 20	118	−10 24.5	+14.0	55.8	19 46.5	1.80	14 34	0.6	—	—
12	23 55 37	119	− 4 33.1	+15.2	56.6	20 29.7	1.81	14 49	0.6	1 11	3.1
13	0 43 38	122	+ 1 41.4	+15.9	57.4	21 13.7	1.86	15 3	0.6	2 25	3.1
14	1 33 39	129	+ 8 3.8	+15.8	58.3	21 59.6	1.97	15 17	0.6	3 40	3.2
15	2 26 58	138	+14 14.3	+14.8	59.1	22 48.9	2.14	15 34	0.8	5 0	3.4
16	3 24 46	151	+19 46.7	+12.6	59.8	23 42.6	2.34	15 54	1.0	6 24	3.6
17	—	—	—	—	—	—	—	16 22	1.4	7 51	3.6
18	4 27 37	163	+24 9.8	+ 9.1	60.2	0 41.3	2.55	17 0	1.9	9 18	3.5
19	5 34 49	172	+26 52.1	+ 4.3	60.4	1 44.4	2.69	17 54	2.6	10 38	3.0
20	6 44 7	173	+27 31.5	− 1.1	60.3	2 49.6	2.71	19 5	3.2	11 43	2.3
21	7 52 17	166	+26 4.0	− 6.1	60.0	3 53.6	2.60	20 27	3.5	12 29	1.6
22	8 56 39	155	+22 45.4	−10.2	59.5	4 53.9	2.41	21 52	3.5	13 2	1.2
23	9 56 2	142	+18 2.8	−13.1	58.9	5 49.2	2.20	23 16	3.4	13 26	0.9
24	10 50 45	132	+12 24.8	−14.9	58.3	6 39.8	2.03	—	—	13 45	0.7

Tag	0h Welt-Zeit									
	Scheinbare Rektaszension		Scheinbare Deklination		Parallaxe		Halbmesser		Länge	Breite
1929	h m s	m s	° '	° '	' "	"	' "	"	°	°
Nov. 24	10 36 28	50 20	+13 59.5	5 50.3	58 30.5	35.6	15 58.0	9.7	155.480	+4.828
25	11 26 48	47 55	+ 8 9.2	6 5.7	57 54.9	34.6	15 48.3	9.4	169.160	+4.199
26	12 14 43	46 42	+ 2 3.5	6 4.3	57 20.3	33.0	15 38.9	9.0	182.555	+3.352
27	13 1 25	46 35	− 4 0.8	5 48.5	56 47.3	31.0	15 29.9	8.5	195.687	+2.344
28	13 48 0	47 25	− 9 49.3	5 18.9	56 16.3	28.9	15 21.4	7.8	208.580	+1.234
29	14 35 25	48 56	−15 8.2	4 36.3	55 47.4	26.7	15 13.6	7.3	221.260	+0.082
30	15 24 21	50 48	−19 44.5	3 40.9	55 20.7	24.1	15 6.3	6.6	233.751	−1.055
Dez. 1	16 15 9	52 31	−23 25.4	2 34.7	54 56.6	21.0	14 59.7	5.7	246.073	−2.126
2	17 7 40	53 38	−26 0.1	1 20.4	54 35.6	16.9	14 54.0	4.6	258.245	−3.084
3	18 1 18	53 44	−27 20.5	0 2.8	54 18.7	11.8	14 49.4	3.2	270.288	−3.892
4	18 55 2	52 47	−27 23.3	1 12.9	54 6.9	5.4	14 46.2	1.5	282.228	−4.521
5	19 47 49	51 1	−26 10.4	2 22.5	54 1.5	2.2	14 44.7	0.6	294.098	−4.951
6	20 38 50	48 55	−23 47.9	3 23.3	54 3.7	11.0	14 45.3	3.0	305.941	−5.168
7	21 27 45	46 57	−20 24.6	4 14.1	54 14.7	20.6	14 48.3	5.6	317.811	−5.164
8	22 14 42	45 28	−16 10.5	4 55.5	54 35.3	30.6	14 53.9	8.4	329.770	−4.937
9	23 0 10	44 49	−11 15.0	5 27.4	55 5.9	40.3	15 2.3	10.9	341.892	−4.488
10	23 44 59	45 10	− 5 47.6	5 49.8	55 46.2	48.9	15 13.2	13.3	354.254	−3.823
11	0 30 9	46 38	+ 0 2.2	6 0.8	56 35.1	55.1	15 26.5	15.1	6.934	−2.958
12	1 16 47	49 23	+ 6 3.0	5 57.3	57 30.2	58.0	15 41.6	15.8	20.004	−1.915
13	2 6 10	53 21	+12 0.3	5 34.0	58 28.2	56.2	15 57.4	15.3	33.519	−0.733
14	2 59 31	58 18	+17 34.3	4 44.9	59 24.4	48.8	16 12.7	13.3	47.504	+0.531
15	3 57 49	63 21	+22 19.2	3 25.9	60 13.2	36.1	16 26.0	9.8	61.941	+1.798
16	5 1 10	67 8	+25 45.1	1 39.1	60 49.3	19.0	16 35.8	5.2	76.761	+2.976
17	6 8 18	68 13	+27 24.2	0 23.7	61 8.3	0.0	16 41.0	0.0	91.845	+3.966
18	7 16 31	66 9	+27 0.5	2 23.0	61 8.3	18.2	16 41.0	4.9	107.032	+4.683
19	8 22 40	61 53	+24 37.5	4 1.7	60 50.1	33.1	16 36.1	9.1	122.149	+5.069
20	9 24 33	56 56	+20 35.8	5 11.5	60 17.0	43.4	16 27.0	11.8	137.037	+5.105
21	10 21 29	52 32	+15 24.3	5 52.5	59 33.6	48.6	16 15.2	13.2	151.578	+4.809
22	11 14 1	49 15	+ 9 31.8	6 9.9	58 45.0	49.6	16 2.0	13.5	165.707	+4.225
23	12 3 16	47 17	+ 3 21.9	6 8.5	57 55.4	47.2	15 48.5	12.9	179.410	+3.413
24	12 50 33	46 34	− 2 46.6	5 52.5	57 8.2	42.7	15 35.6	11.7	192.708	+2.437
25	13 37 7	46 54	− 8 39.1	5 23.9	56 25.5	37.3	15 23.9	10.1	205.651	+1.361
26	14 24 1	48 6	−14 3.0	4 43.4	55 48.2	31.5	15 13.8	8.6	218.299	+0.242
27	15 12 7	49 51	−18 46.4	3 51.7	55 16.7	26.0	15 5.2	7.1	230.712	−0.865
28	16 1 58	51 41	−22 38.1	2 49.2	54 50.7	20.7	14 58.1	5.6	242.944	−1.914
29	16 53 39	53 6	−25 27.3	1 38.0	54 30.0	15.8	14 52.5	4.3	255.043	−2.862
30	17 46 45	53 38	−27 5.3	0 21.6	54 14.2	11.0	14 48.2	3.0	267.044	−3.672
31	18 40 23	53 6	−27 26.9	0 54.8	54 3.2	6.2	14 45.2	1.7	278.976	−4.313
32	19 33 29		−26 32.1		53 57.0		14 43.5		290.861	−4.763

Tag	Obere Kulmination in Greenwich: AR.	Änderung für 1h westl. Länge	Dekl.	Änderung für 1h westl. Länge	Parallaxe	Zeit des Durchgangs	Änderung für 1h westl. Länge	0h Länge, +50° Breite: Aufgang	Änderung für 1h westl. Länge	Untergang	Änderung für 1h westl. Länge
1929	h m s	s	° ′	′	′	h m	m	h m	m	h m	m
Nov. 24	10 50 45	132	+12 24.8	−14.9	58.3	6 39.8	2.03	—	—	13 45	0.7
25	11 41 52	124	+ 6 16.5	−15.7	57.7	7 26.8	1.90	0 36	3.4	14 0	0.6
26	12 30 44	120	− 0 1.8	−15.7	57.1	8 11.6	1.84	1 54	3.2	14 14	0.6
27	13 18 42	120	− 6 13.0	−15.1	56.6	8 55.5	1.83	3 9	3.1	14 28	0.6
28	14 6 57	122	−12 2.0	−13.9	56.1	9 39.7	1.86	4 24	3.1	14 44	0.7
29	14 56 27	126	−17 14.2	−12.0	55.6	10 25.2	1.93	5 38	3.1	15 1	0.8
30	15 47 51	131	−21 35.3	− 9.6	55.2	11 12.5	2.01	6 53	3.1	15 23	1.1
Dez. 1	16 41 18	136	−24 51.8	− 6.7	54.8	12 1.9	2.10	8 6	2.9	15 52	1.4
2	17 36 22	139	−26 52.8	− 3.4	54.4	12 52.9	2.15	9 13	2.6	16 30	1.8
3	18 32 7	139	−27 31.6	+ 0.1	54.2	13 44.5	2.15	10 11	2.2	17 18	2.2
4	19 27 18	136	−26 47.7	+ 3.5	54.0	14 35.6	2.10	10 58	1.7	18 16	2.6
5	20 20 50	131	−24 46.3	+ 6.6	54.0	15 25.1	2.02	11 34	1.3	19 22	2.8
6	21 12 6	125	−21 36.7	+ 9.2	54.2	16 12.3	1.92	12 2	1.0	20 31	2.9
7	22 1 6	120	−17 29.8	+11.3	54.5	16 57.2	1.83	12 22	0.8	21 42	2.9
8	22 48 17	116	−12 36.4	+13.1	54.9	17 40.3	1.77	12 40	0.7	22 52	3.0
9	23 34 30	115	− 7 6.7	+14.4	55.6	18 22.5	1.75	12 54	0.6	—	—
10	0 20 48	117	− 1 10.8	+15.2	56.4	19 4.7	1.78	13 8	0.6	0 4	3.0
11	1 8 28	122	+ 4 59.8	+15.6	57.3	19 48.3	1.86	13 21	0.6	1 16	3.1
12	1 58 54	131	+11 10.3	+15.2	58.3	20 34.7	2.01	13 36	0.7	2 32	3.2
13	2 53 34	143	+17 0.3	+13.8	59.3	21 25.3	2.21	13 54	0.9	3 52	3.4
14	3 53 39	157	+22 1.9	+11.1	60.2	22 21.3	2.46	14 18	1.2	5 16	3.6
15	4 59 29	171	+25 41.1	+ 6.9	60.8	23 23.0	2.67	14 50	1.6	6 45	3.6
16	—	—	—	—	—	—	—	15 37	2.3	8 10	3.3
17	6 9 40	179	+27 24.9	+ 1.6	61.1	0 29.1	2.81	16 42	3.0	9 25	2.7
18	7 21 2	177	+26 54.5	− 4.1	61.1	1 36.3	2.77	18 3	3.5	10 21	2.0
19	8 29 49	166	+24 14.9	− 9.0	60.8	2 41.0	2.60	19 31	3.7	11 1	1.4
20	9 33 36	152	+19 51.8	−12.6	60.2	3 40.6	2.37	21 0	3.6	11 29	1.0
21	10 31 49	139	+14 19.4	−14.8	59.4	4 34.8	2.15	22 23	3.4	11 50	0.8
22	11 25 21	129	+ 8 9.3	−15.8	58.6	5 24.2	1.98	23 43	3.3	12 7	0.7
23	12 15 34	123	+ 1 46.4	−15.9	57.7	6 10.4	1.88	—	—	12 22	0.6
24	13 3 59	120	− 4 30.4	−15.4	56.9	6 54.7	1.83	0 59	3.1	12 36	0.6
25	13 51 58	120	−10 26.0	−14.2	56.2	7 38.6	1.83	2 14	3.1	12 50	0.6
26	14 40 39	123	−15 47.2	−12.5	55.6	8 23.3	1.89	3 28	3.1	13 7	0.8
27	15 30 55	128	−20 21.5	−10.3	55.1	9 9.5	1.97	4 42	3.1	13 28	1.0
28	16 23 13	133	−23 56.4	− 7.6	54.7	9 57.7	2.05	5 55	3.0	13 54	1.3
29	17 17 24	137	−26 20.6	− 4.4	54.4	10 47.8	2.12	7 4	2.7	14 28	1.6
30	18 12 47	139	−27 25.5	− 1.0	54.1	11 39.1	2.15	8 5	2.3	15 13	2.1
31	19 8 11	138	−27 7.7	+ 2.4	54.0	12 30.4	2.12	8 55	1.9	16 8	2.5

Tag		0ʰ Welt-Zeit						Obere Kulmination in Greenwich
		Scheinbare Rektaszension		Scheinbare Deklination		log Δ		
1929		h m s	m s	° ′ ″	′ ″			h m
Jan.	0	19 12 5.69	7 6.19	−24 32 23.0	11 26.8	0.141 7009	2 9328	12 37.1
	1	19 19 11.88	7 5.51	24 20 56.2	13 0.7	0.138 7681	3 1828	12 40.2
	2	19 26 17.39	7 4.53	24 7 55.5	14 35.0	0.135 5853	3 4449	12 43.4
	3	19 33 21.92	7 3.20	23 53 20.5	16 9.2	0.132 1404	3 7199	12 46.5
	4	19 40 25.12	7 1.49	23 37 11.3	17 43.2	0.128 4205	4 0092	12 49.6
	5	19 47 26.61	6 59.35	23 19 28.1	19 16.9	0.124 4113	4 3141	12 52.7
	6	19 54 25.96	6 56.72	−23 0 11.2	20 49.8	0.120 0972	4 6354	12 55.7
	7	20 1 22.68	6 53.58	22 39 21.4	22 21.6	0.115 4618	4 9745	12 58.7
	8	20 8 16.26	6 49.83	22 16 59.8	23 51.7	0.110 4873	5 3324	13 1.6
	9	20 15 6.09	6 45.38	21 53 8.1	25 19.7	0.105 1549	5 7105	13 4.5
	10	20 21 51.47	6 40.17	21 27 48.4	26 44.8	0.099 4444	6 1097	13 7.3
	11	20 28 31.64	6 34.08	21 1 3.6	28 6.3	0.093 3347	6 5307	13 9.9
	12	20 35 5.72	6 27.00	−20 32 57.3	29 23.4	0.086 8040	6 9738	13 12.5
	13	20 41 32.72	6 18.79	20 3 33.9	30 35.1	0.079 8302	7 4396	13 14.9
	14	20 47 51.51	6 9.29	19 32 58.8	31 40.0	0.072 3906	7 9275	13 17.2
	15	20 54 0.80	5 58.34	19 1 18.8	32 36.9	0.064 4631	8 4360	13 19.3
	16	20 59 59.14	5 45.78	18 28 41.9	33 24.3	0.056 0271	8 9632	13 21.2
	17	21 5 44.92	5 31.40	17 55 17.6	34 0.4	0.047 0639	9 5061	13 22.9
	18	21 11 16.32	5 14.97	−17 21 17.2	34 23.5	0.037 5578	10 0595	13 24.4
	19	21 16 31.29	4 56.30	16 46 53.7	34 31.4	0.027 4983	10 6171	13 25.5
	20	21 21 27.59	4 35.20	16 12 22.3	34 22.1	0.016 8812	11 1703	13 26.3
	21	21 26 2.79	4 11.46	15 38 0.2	33 53.4	0.005 7109	11 7080	13 26.7
	22	21 30 14.25	3 44.91	15 4 6.8	33 3.4	9.994 0029	12 2168	13 26.7
	23	21 33 59.16	3 15.47	14 31 3.4	31 50.0	9.981 7861	12 6804	13 26.3
	24	21 37 14.63	2 43.13	−13 59 13.4	30 11.7	9.969 1057	13 0801	13 25.3
	25	21 39 57.76	2 7.93	13 29 1.7	28 7.4	9.956 0256	13 3944	13 23.8
	26	21 42 5.69	1 30.06	13 0 54.3	25 36.6	9.942 6312	13 6001	13 21.6
	27	21 43 35.75	0 49.91	12 35 17.7	22 39.9	9.929 0311	13 6730	13 18.8
	28	21 44 25.66	0 8.02	12 12 37.8	19 19.0	9.915 3581	13 5892	13 15.3
	29	21 44 33.68	0 34.91	11 53 18.8	15 36.3	9.901 7689	13 3264	13 11.1
	30	21 43 58.77	1 17.94	−11 37 42.5	11 35.9	9.888 4425	12 8664	13 6.2
	31	21 42 40.83	1 59.94	11 26 6.6	7 23.4	9.875 5761	12 1966	13 0.6
Febr.	1	21 40 40.89	2 39.68	11 18 43.2	3 5.2	9.863 3795	11 3132	12 54.3
	2	21 38 1.21	3 15.86	11 15 38.0	1 11.1	9.852 0663	10 2225	12 47.4
	3	21 34 45.35	3 47.18	11 16 49.1	5 17.7	9.841 8438	8 9424	12 40.0
	4	21 30 58.17	4 12.46	11 22 6.8	9 6.8	9.832 9014	7 5019	12 32.1
	5	21 26 45.71	4 30.79	−11 31 13.6	12 31.4	9.825 3995	5 9407	12 23.8
	6	21 22 14.92	4 41.57	11 43 45.0	15 25.8	9.819 4588	4 3064	12 15.3
	7	21 17 33.35	4 44.60	11 59 10.8	17 46.5	9.815 1524	2 6500	12 6.7
	8	21 12 48.75	4 40.09	12 16 57.3	19 31.8	9.812 5024	1 0217	11 58.1
	9	21 8 8.66	4 28.63	12 36 29.1	20 41.8	9.811 4807	5331	11 49.6
	10	21 3 40.03		−12 57 10.9		9.812 0138		11 41.3

Tag	0h Welt-Zeit: Scheinbare Rektaszension	Diff.	0h Welt-Zeit: Scheinbare Deklination	Diff.	0h Welt-Zeit: log Δ	Diff.	Obere Kulmination in Greenwich
1929	h m s	m s	° ′ ″	′ ″			h m
Febr. 10	21 3 40.03	4 11.10	−12 57 10.9	21 18.9	9.812 0138	1 9764	11 41.3
11	20 59 28.93	3 48.53	13 18 29.8	21 26.4	9.813 9902	3 2810	11 33.4
12	20 55 40.40	3 22.08	13 39 56.2	21 8.1	9.817 2712	4 4301	11 25.9
13	20 52 18.32	2 52.91	14 1 4.3	20 28.6	9.821 7013	5 4165	11 18.9
14	20 49 25.41	2 22.04	14 21 32.9	19 32.0	9.827 1178	6 2415	11 12.3
15	20 47 3.37	1 50.38	14 41 4.9	18 22.2	9.833 3593	6 9130	11 6.3
16	20 45 12.99	1 18.70	−14 59 27.1	17 2.3	9.840 2723	7 4426	11 0.8
17	20 43 54.29	0 47.59	15 16 29.4	15 35.3	9.847 7149	7 8452	10 55.8
18	20 43 6.70	0 17.52	15 32 4.7	14 3.4	9.855 5601	8 1363	10 51.3
19	20 42 49.18	0 11.25	15 46 8.1	12 28.2	9.863 6964	8 3314	10 47.3
20	20 43 0.43	0 38.49	15 58 36.3	10 51.1	9.872 0278	8 4453	10 43.7
21	20 43 38.92	1 4.08	16 9 27.4	9 12.8	9.880 4731	8 4917	10 40.6
22	20 44 43.00	1 28.00	−16 18 40.2	7 34.5	9.888 9648	8 4824	10 37.9
23	20 46 11.00	1 50.22	16 26 14.7	5 56.3	9.897 4472	8 4281	10 35.6
24	20 48 1.22	2 10.82	16 32 11.0	4 18.5	9.905 8753	8 3378	10 33.7
25	20 50 12.04	2 29.85	16 36 29.5	2 41.7	9.914 2131	8 2192	10 32.1
26	20 52 41.89	2 47.38	16 39 11.2	1 5.8	9.922 4323	8 0788	10 30.8
27	20 55 29.27	3 3.52	16 40 17.0	0 29.0	9.930 5111	7 9221	10 29.7
28	20 58 32.79	3 18.36	−16 39 48.0	2 2.9	9.938 4332	7 7537	10 28.9
März 1	21 1 51.15	3 31.99	16 37 45.1	3 35.5	9.946 1869	7 5769	10 28.4
2	21 5 23.14	3 44.50	16 34 9.6	5 6.9	9.953 7638	7 3947	10 28.1
3	21 9 7.64	3 55.99	16 29 2.7	6 37.4	9.961 1585	7 2096	10 28.0
4	21 13 3.63	4 6.57	16 22 25.3	8 6.7	9.968 3681	7 0234	10 28.1
5	21 17 10.20	4 16.28	16 14 18.6	9 34.9	9.975 3915	6 8376	10 28.3
6	21 21 26.48	4 25.21	−16 4 43.7	11 2.2	9.982 2291	6 6535	10 28.7
7	21 25 51.69	4 33.44	15 53 41.5	12 28.4	9.988 8826	6 4717	10 29.2
8	21 30 25.13	4 41.03	15 41 13.1	13 53.6	9.995 3543	6 2929	10 29.9
9	21 35 6.16	4 48.04	15 27 19.5	15 17.8	0.001 6472	6 1177	10 30.7
10	21 39 54.20	4 54.54	15 12 1.7	16 41.1	0.007 7649	5 9464	10 31.6
11	21 44 48.74	5 0.56	14 55 20.6	18 3.5	0.013 7113	5 7791	10 32.6
12	21 49 49.30	5 6.16	−14 37 17.1	19 25.1	0.019 4904	5 6159	10 33.7
13	21 54 55.46	5 11.39	14 17 52.0	20 45.7	0.025 1063	5 4571	10 34.9
14	22 0 6.85	5 16.28	13 57 6.3	22 5.5	0.030 5634	5 3022	10 36.2
15	22 5 23.13	5 20.89	13 35 0.8	23 24.5	0.035 8656	5 1511	10 37.6
16	22 10 44.02	5 25.24	13 11 36.3	24 42.8	0.041 0167	5 0037	10 39.0
17	22 16 9.26	5 29.36	12 46 53.5	26 0.1	0.046 0204	4 8599	10 40.5
18	22 21 38.62	5 33.31	−12 20 53.4	27 16.8	0.050 8803	4 7192	10 42.1
19	22 27 11.93	5 37.09	11 53 36.6	28 32.8	0.055 5995	4 5813	10 43.7
20	22 32 49.02	5 40.74	11 25 3.8	29 48.1	0.060 1808	4 4458	10 45.4
21	22 38 29.76	5 44.31	10 55 15.7	31 2.5	0.064 6266	4 3125	10 47.2
22	22 44 14.07	5 47.79	10 24 13.2	32 16.3	0.068 9391	4 1805	10 49.0
23	22 50 1.86		− 9 51 56.9		0.073 1196		10 50.9

Tag	0h Welt-Zeit						Obere Kulmination in Greenwich
	Scheinbare Rektaszension		Scheinbare Deklination		log Δ		
1929	h m s	m s	° ′ ″	′ ″			h m
März 23	22 50 1.86	5 51.22	− 9 51 56.9	33 29.3	0.073 1196	4 0495	10 50.9
24	22 55 53.08	5 54.62	9 18 27.6	34 41.6	0.077 1691	3 9193	10 52.8
25	23 1 47.70	5 58.02	8 43 46.0	35 53.2	0.081 0884	3 7891	10 54.8
26	23 7 45.72	6 1.43	8 7 52.8	37 4.0	0.084 8775	3 6580	10 56.9
27	23 13 47.15	6 4.89	7 30 48.8	38 14.0	0.088 5355	3 5257	10 59.0
28	23 19 52.04	6 8.39	6 52 34.8	39 23.1	0.092 0612	3 3917	11 1.2
29	23 26 0.43	6 11.95	− 6 13 11.7	40 31.3	0.095 4529	3 2549	11 3.4
30	23 32 12.38	6 15.61	5 32 40.4	41 38.5	0.098 7078	3 1146	11 5.7
31	23 38 27.99	6 19.40	4 51 1.9	42 44.8	0.101 8224	2 9703	11 8.1
April 1	23 44 47.39	6 23.29	4 8 17.1	43 49.8	0.104 7927	2 8206	11 10.5
2	23 51 10.68	6 27.31	3 24 27.3	44 53.4	0.107 6133	2 6646	11 13.0
3	23 57 37.99	6 31.48	2 39 33.9	45 55.6	0.110 2779	2 5019	11 15.5
4	0 4 9.47	6 35.82	− 1 53 38.3	46 56.2	0.112 7798	2 3308	11 18.1
5	0 10 45.29	6 40.33	1 6 42.1	47 54.8	0.115 1106	2 1499	11 20.8
6	0 17 25.62	6 45.00	− 0 18 47.3	48 51.4	0.117 2605	1 9583	11 23.6
7	0 24 10.62	6 49.85	+ 0 30 4.1	49 45.6	0.119 2188	1 7549	11 26.4
8	0 31 0.47	6 54.88	1 19 49.7	50 36.9	0.120 9737	1 5378	11 29.4
9	0 37 55.35	7 0.06	2 10 26.6	51 24.8	0.122 5115	1 3058	11 32.4
10	0 44 55.41	7 5.39	+ 3 1 51.4	52 9.0	0.123 8173	1 0575	11 35.5
11	0 52 0.80	7 10.86	3 54 0.4	52 49.1	0.124 8748	7913	11 38.7
12	0 59 11.66	7 16.43	4 46 49.5	53 24.2	0.125 6661	5057	11 42.0
13	1 6 28.09	7 22.04	5 40 13.7	53 53.5	0.126 1718	1999	11 45.4
14	1 13 50.13	7 27.67	6 34 7.2	54 16.5	0.126 3717	1276	11 48.8
15	1 21 17.80	7 33.25	7 28 23.7	54 32.3	0.126 2441	4778	11 52.4
16	1 28 51.05	7 38.70	+ 8 22 56.0	54 39.9	0.125 7663	8509	11 56.1
17	1 36 29.75	7 43.94	9 17 35.9	54 38.5	0.124 9154	1 2472	11 59.8
18	1 44 13.69	7 48.86	10 12 14.4	54 27.3	0.123 6682	1 6662	12 3.7
19	1 52 2.55	7 53.35	11 6 41.7	54 5.4	0.122 0020	2 1069	12 7.6
20	1 59 55.90	7 57.31	12 0 47.1	53 31.9	0.119 8951	2 5674	12 11.6
21	2 7 53.21	8 0.60	12 54 19.0	52 46.3	0.117 3277	3 0453	12 15.7
22	2 15 53.81	8 3.09	+13 47 5.3	51 48.2	0.114 2824	3 5372	12 19.8
23	2 23 56.90	8 4.68	14 38 53.5	50 37.6	0.110 7452	4 0393	12 23.9
24	2 32 1.58	8 5.25	15 29 31.1	49 14.4	0.106 7059	4 5470	12 28.1
25	2 40 6.83	8 4.74	16 18 45.5	47 39.1	0.102 1589	5 0554	12 32.2
26	2 48 11.57	8 3.06	17 6 24.6	45 52.3	0.097 1035	5 5597	12 36.3
27	2 56 14.63	8 0.18	17 52 16.9	43 55.3	0.091 5438	6 0546	12 40.4
28	3 4 14.81	7 56.05	+18 36 12.2	41 49.0	0.085 4892	6 5357	12 44.5
29	3 12 10.86	7 50.71	19 18 1.2	39 34.9	0.078 9535	6 9988	12 48.4
30	3 20 1.57	7 44.18	19 57 36.1	37 14.6	0.071 9547	7 4399	12 52.3
Mai 1	3 27 45.75	7 36.50	20 34 50.7	34 49.4	0.064 5148	7 8565	12 56.0
2	3 35 22.25	7 27.71	21 9 40.1	32 21.0	0.056 6583	8 2463	12 59.6
3	3 42 49.96		+21 42 1.1		0.048 4120		13 3.0

Tag	0ʰ Welt-Zeit Scheinbare Rektaszension	Diff.	Scheinbare Deklination	Diff.	log Δ	Diff.	Obere Kulmination in Greenwich
1929	h m s	m s	° ′ ″	′ ″			h m
Mai 3	3 42 49.96	7 17.90	+21 42 1.1	29 50.8	0.048 4120	8 6081	13 3.0
4	3 50 7.86	7 7.15	22 11 51.9	27 20.1	0.039 8039	8 9411	13 6.3
5	3 57 15.01	6 55.51	22 39 12.0	24 49.9	0.030 8628	9 2452	13 9.4
6	4 4 10.52	6 43.03	23 4 1.9	22 21.2	0.021 6176	9 5205	13 12.3
7	4 10 53.55	6 29.80	23 26 23.1	19 55.0	0.012 0971	9 7673	13 14.9
8	4 17 23.35	6 15.87	23 46 18.1	17 31.9	0.002 3298	9 9864	13 17.4
9	4 23 39.22	6 1.28	+24 3 50.0	15 12.4	9.992 3434	10 1785	13 19.6
10	4 29 40.50	5 46.07	24 19 2.4	12 56.7	9.982 1649	10 3443	13 21.5
11	4 35 26.57	5 30.28	24 31 59.1	10 45.3	9.971 8206	10 4841	13 23.2
12	4 40 56.85	5 13.92	24 42 44.4	8 38.4	9.961 3365	10 5986	13 24.6
13	4 46 10.77	4 57.03	24 51 22.8	6 36.0	9.950 7379	10 6877	13 25.7
14	4 51 7.80	4 39.64	24 57 58.8	4 38.1	9.940 0502	10 7515	13 26.6
15	4 55 47.44	4 21.76	+25 2 36.9	2 44.8	9.929 2987	10 7894	13 27.1
16	5 0 9.20	4 3.41	25 5 21.7	0 56.1	9.918 5093	10 8010	13 27.4
17	5 4 12.61	3 44.60	25 6 17.8	0 48.3	9.907 7083	10 7853	13 27.3
18	5 7 57.21	3 25.37	25 5 29.5	2 28.3	9.896 9230	10 7411	13 26.9
19	5 11 22.58	3 5.76	25 3 1.2	4 4.1	9.886 1819	10 6669	13 26.2
20	5 14 28.34	2 45.78	24 58 57.1	5 35.6	9.875 5150	10 5610	13 25.2
21	5 17 14.12	2 25.50	+24 53 21.5	7 3.1	9.864 9540	10 4214	13 23.8
22	5 19 39.62	2 4.98	24 46 18.4	8 26.5	9.854 5326	10 2458	13 22.1
23	5 21 44.60	1 44.27	24 37 51.9	9 45.8	9.844 2868	10 0319	13 20.1
24	5 23 28.87	1 23.46	24 28 6.1	11 1.1	9.834 2549	9 7772	13 17.7
25	5 24 52.33	1 2.66	24 17 5.0	12 12.3	9.824 4777	9 4794	13 15.0
26	5 25 54.99	0 41.99	24 4 52.7	13 19.3	9.814 9983	9 1360	13 11.9
27	5 26 36.98	0 21.58	+23 51 33.4	14 21.7	9.805 8623	8 7445	13 8.4
28	5 26 58.56	0 1.59	23 37 11.7	15 19.2	9.797 1178	8 3035	13 4.7
29	5 27 0.15	0 17.81	23 21 52.5	16 11.5	9.788 8143	7 8113	13 0.6
30	5 26 42.34	0 36.42	23 5 41.0	16 58.3	9.781 0030	7 2671	12 56.2
31	5 26 5.92	0 54.07	22 48 42.7	17 38.9	9.773 7359	6 6713	12 51.5
Juni 1	5 25 11.85	1 10.53	22 31 3.8	18 12.5	9.767 0646	6 0248	12 46.5
2	5 24 1.32	1 25.56	+22 12 51.3	18 38.5	9.761 0398	5 3295	12 41.3
3	5 22 35.76	1 38.99	21 54 12.8	18 56.3	9.755 7103	4 5884	12 35.8
4	5 20 56.77	1 50.63	21 35 16.5	19 5.1	9.751 1219	3 8062	12 30.2
5	5 19 6.14	2 0.30	21 16 11.4	19 4.3	9.747 3157	2 9884	12 24.3
6	5 17 5.84	2 7.84	20 57 7.1	18 53.3	9.744 3273	2 1414	12 18.3
7	5 14 58.00	2 13.14	20 38 13.8	18 31.8	9.742 1859	1 2731	12 12.2
8	5 12 44.86	2 16.12	+20 19 42.0	17 59.3	9.740 9128	3914	12 6.1
9	5 10 28.74	2 16.77	20 1 42.7	17 15.9	9.740 5214	4951	11 59.9
10	5 8 11.97	2 15.07	19 44 26.8	16 21.9	9.741 0165	1 3774	11 53.7
11	5 5 56.90	2 11.09	19 28 4.9	15 17.7	9.742 3939	2 2467	11 47.6
12	5 3 45.81	2 4.91	19 12 47.2	14 3.8	9.744 6406	3 0948	11 41.5
13	5 1 40.90		+18 58 43.4		9.747 7354		11 35.6

Tag	0h Welt-Zeit Scheinbare Rektaszension		Scheinbare Deklination		log Δ		Obere Kulmination in Greenwich
1929	h m s	m s	° ′ ″	′ ″			h m
Juni 13	5 1 40.90	1 56.67	+18 58 43.4	12 41.3	9.747 7354	3 9141	11 35.6
14	4 59 44.23	1 46.52	18 46 2.1	11 11.3	9.751 6495	4 6977	11 29.8
15	4 57 57.71	1 34.64	18 34 50.8	9 34.8	9.756 3472	5 4401	11 24.2
16	4 56 23.07	1 21.19	18 25 16.0	7 53.3	9.761 7873	6 1371	11 18.8
17	4 55 1.88	1 6.41	18 17 22.7	6 8.3	9.767 9244	6 7853	11 13.6
18	4 53 55.47	0 50.49	18 11 14.4	4 21.0	9.774 7097	7 3823	11 8.7
19	4 53 4.98	0 33.60	+18 6 53.4	2 32.7	9.782 0920	7 9275	11 4.1
20	4 52 31.38	0 15.93	18 4 20.7	0 44.8	9.790 0195	8 4208	10 59.7
21	4 52 15.45	0 2.36	18 3 35.9	1 1.5	9.798 4403	8 8628	10 55.6
22	4 52 17.81	0 21.12	18 4 37.4	2 45.2	9.807 3031	9 2547	10 51.9
23	4 52 38.93	0 40.24	18 7 22.6	4 25.3	9.816 5578	9 5986	10 48.4
24	4 53 19.17	0 59.60	18 11 47.9	6 0.9	9.826 1564	9 8968	10 45.3
25	4 54 18.77	1 19.13	+18 17 48.8	7 31.4	9.836 0532	10 1514	10 42.5
26	4 55 37.90	1 38.74	18 25 20.2	8 55.9	9.846 2046	10 3651	10 40.0
27	4 57 16.64	1 58.39	18 34 16.1	10 14.1	9.856 5697	10 5403	10 37.9
28	4 59 15.03	2 18.05	18 44 30.2	11 25.4	9.867 1100	10 6793	10 36.1
29	5 1 33.08	2 37.66	18 55 55.6	12 29.4	9.877 7893	10 7843	10 34.6
30	5 4 10.74	2 57.23	19 8 25.0	13 25.6	9.888 5736	10 8572	10 33.4
Juli 1	5 7 7.97	3 16.74	+19 21 50.6	14 13.8	9.899 4308	10 8998	10 32.6
2	5 10 24.71	3 36.19	19 36 4.4	14 53.5	9.910 3306	10 9135	10 32.1
3	5 14 0.90	3 55.56	19 50 57.9	15 24.4	9.921 2441	10 8995	10 31.9
4	5 17 56.46	4 14.86	20 6 22.3	15 46.2	9.932 1436	10 8586	10 32.0
5	5 22 11.32	4 34.09	20 22 8.5	15 58.7	9.943 0022	10 7915	10 32.4
6	5 26 45.41	4 53.23	20 38 7.2	16 1.3	9.953 7937	10 6985	10 33.2
7	5 31 38.64	5 12.27	+20 54 8.5	15 53.6	9.964 4922	10 5796	10 34.3
8	5 36 50.91	5 31.19	21 10 2.1	15 35.5	9.975 0718	10 4347	10 35.7
9	5 42 22.10	5 49.94	21 25 37.6	15 6.5	9.985 5065	10 2631	10 37.4
10	5 48 12.04	6 8.47	21 40 44.1	14 26.2	9.995 7696	10 0643	10 39.4
11	5 54 20.51	6 26.72	21 55 10.3	13 34.2	0.005 8339	9 8379	10 41.8
12	6 0 47.23	6 44.61	22 8 44.5	12 30.4	0.015 6718	9 5831	10 44.4
13	6 7 31.84	7 2.01	+22 21 14.9	11 14.7	0.025 2549	9 2991	10 47.3
14	6 14 33.85	7 18.82	22 32 29.6	9 46.7	0.034 5540	8 9856	10 50.6
15	6 21 52.67	7 34.87	22 42 16.3	8 6.9	0.043 5396	8 6429	10 54.1
16	6 29 27.54	7 50.01	22 50 23.2	6 15.6	0.052 1825	8 2713	10 57.8
17	6 37 17.55	8 4.07	22 56 38.8	4 13.1	0.060 4538	7 8717	11 1.8
18	6 45 21.62	8 16.89	23 0 51.9	2 0.5	0.068 3255	7 4461	11 6.1
19	6 53 38.51	8 28.29	+23 2 52.4	0 21.2	0.075 7716	6 9965	11 10.5
20	7 2 6.80	8 38.14	23 2 31.2	2 50.4	0.082 7681	6 5264	11 15.1
21	7 10 44.94	8 46.28	22 59 40.8	5 25.7	0.089 2945	6 0399	11 19.9
22	7 19 31.22	8 52.64	22 54 15.1	8 5.2	0.095 3344	5 5413	11 24.8
23	7 28 23.86	8 57.18	22 46 9.9	10 46.9	0.100 8757	5 0353	11 29.8
24	7 37 21.04		+22 35 23.0		0.105 9110		11 34.9

Tag		0h Welt-Zeit: Scheinbare Rektaszension		Scheinbare Deklination		log Δ		Obere Kulmination in Greenwich
1929		h m s	m s	° ′ ″	′ ″			h m
Juli	24	7 37 21.04	8 59.90	+22 35 23.0	13 28.8	0.105 9110	4 5269	11 34.9
	25	7 46 20.94	9 0.81	22 21 54.2	16 8.9	0.110 4379	4 0213	11 40.0
	26	7 55 21.75	9 0.02	22 5 45.3	18 45.7	0.114 4592	3 5232	11 45.1
	27	8 4 21.77	8 57.65	21 46 59.6	21 17.4	0.117 9824	3 0370	11 50.1
	28	8 13 19.42	8 53.84	21 25 42.2	23 42.4	0.121 0194	2 5660	11 55.1
	29	8 22 13.26	8 48.76	21 1 59.8	26 0.0	0.123 5854	2 1132	12 0.0
	30	8 31 2.02	8 42.58	+20 35 59.8	28 9.2	0.125 6986	1 6807	12 4.9
	31	8 39 44.60	8 35.50	20 7 50.6	30 9.5	0.127 3793	1 2705	12 9.6
Aug.	1	8 48 20.10	8 27.69	19 37 41.1	32 0.4	0.128 6498	8831	12 14.2
	2	8 56 47.79	8 19.29	19 5 40.7	33 42.2	0.129 5329	5183	12 18.7
	3	9 5 7.08	8 10.48	18 31 58.5	35 14.7	0.130 0512	1761	12 23.0
	4	9 13 17.56	8 1.38	17 56 43.8	36 38.3	0.130 2273	1440	12 27.1
	5	9 21 18.94	7 52.11	+17 20 5.5	37 53.1	0.130 0833	4433	12 31.1
	6	9 29 11.05	7 42.77	16 42 12.4	38 59.7	0.129 6400	7226	12 35.0
	7	9 36 53.82	7 33.43	16 3 12.7	39 58.6	0.128 9174	9834	12 38.7
	8	9 44 27.25	7 24.18	15 23 14.1	40 50.0	0.127 9340	1 2274	12 42.2
	9	9 51 51.43	7 15.04	14 42 24.1	41 34.6	0.126 7066	1 4558	12 45.6
	10	9 59 6.47	7 6.08	14 0 49.5	42 12.8	0.125 2508	1 6700	12 48.9
	11	10 6 12.55	6 57.33	+13 18 36.7	42 45.2	0.123 5808	1 8715	12 52.0
	12	10 13 9.88	6 48.80	12 35 51.5	43 12.0	0.121 7093	2 0616	12 54.9
	13	10 19 58.68	6 40.51	11 52 39.5	43 33.7	0.119 6477	2 2417	12 57.7
	14	10 26 39.19	6 32.46	11 9 5.8	43 50.7	0.117 4060	2 4130	13 0.4
	15	10 33 11.65	6 24.67	10 25 15.1	44 3.3	0.114 9930	2 5766	13 2.9
	16	10 39 36.32	6 17.13	9 41 11.8	44 11.8	0.112 4164	2 7337	13 5.3
	17	10 45 53.45	6 9.81	+ 8 57 0.0	44 16.6	0.109 6827	2 8853	13 7.6
	18	10 52 3.26	6 2.74	8 12 43.4	44 17.8	0.106 7974	3 0320	13 9.7
	19	10 58 6.00	5 55.91	7 28 25.6	44 15.7	0.103 7654	3 1752	13 11.8
	20	11 4 1.91	5 49.28	6 44 9.9	44 10.7	0.100 5902	3 3155	13 13.7
	21	11 9 51.19	5 42.83	5 59 59.2	44 2.5	0.097 2747	3 4534	13 15.5
	22	11 15 34.02	5 36.58	5 15 56.7	43 51.5	0.093 8213	3 5900	13 17.2
	23	11 21 10.60	5 30.50	+ 4 32 5.2	43 38.0	0.090 2313	3 7256	13 18.9
	24	11 26 41.10	5 24.55	3 48 27.2	43 22.0	0.086 5057	3 8610	13 20.4
	25	11 32 5.65	5 18.74	3 5 5.2	43 3.4	0.082 6447	3 9970	13 21.8
	26	11 37 24.39	5 13.04	2 22 1.8	42 42.5	0.078 6477	4 1338	13 23.1
	27	11 42 37.43	5 7.41	1 39 19.3	42 19.1	0.074 5139	4 2719	13 24.3
	28	11 47 44.84	5 1.85	0 57 0.2	41 53.5	0.070 2420	4 4119	13 25.5
	29	11 52 46.69	4 56.34	+ 0 15 6.7	41 25.5	0.065 8301	4 5543	13 26.5
	30	11 57 43.03	4 50.82	− 0 26 18.8	40 55.2	0.061 2758	4 6996	13 27.4
	31	12 2 33.85	4 45.28	1 7 14.0	40 22.4	0.056 5762	4 8477	13 28.3
Sept.	1	12 7 19.13	4 39.71	1 47 36.4	39 47.3	0.051 7285	4 9993	13 29.0
	2	12 11 58.84	4 34.06	2 27 23.7	39 9.5	0.046 7292	5 1546	13 29.7
	3	12 16 32.90		− 3 6 33.2		0.041 5746		13 30.3

Tag	0ʰ Welt-Zeit: Scheinbare Rektaszension		Scheinbare Deklination		log Δ		Obere Kulmination in Greenwich
1929	h m s	m s	° ′ ″	′ ″			h m
Sept. 3	12 16 32.90	4 28.29	− 3 6 33.2	38 29.1	0.041 5746	5 3136	13 30.3
4	12 21 1.19	4 22.38	3 45 2.3	37 46.0	0.036 2610	5 4768	13 30.8
5	12 25 23.57	4 16.27	4 22 48.3	37 0.0	0.030 7842	5 6441	13 31.1
6	12 29 39.84	4 9.94	4 59 48.3	36 10.7	0.025 1401	5 8155	13 31.4
7	12 33 49.78	4 3.34	5 35 59.0	35 18.2	0.019 3246	5 9912	13 31.6
8	12 37 53.12	3 56.41	6 11 17.2	34 22.3	0.013 3334	6 1707	13 31.6
9	12 41 49.53	3 49.11	− 6 45 39.5	33 22.5	0.007 1627	6 3540	13 31.6
10	12 45 38.64	3 41.39	7 19 2.0	32 18.6	0.000 8087	6 5409	13 31.4
11	12 49 20.03	3 33.17	7 51 20.6	31 10.2	9.994 2678	6 7306	13 31.0
12	12 52 53.20	3 24.41	8 22 30.8	29 56.8	9.987 5372	6 9222	13 30.5
13	12 56 17.61	3 15.02	8 52 27.6	28 38.2	9.980 6150	7 1151	13 29.9
14	12 59 32.63	3 4.93	9 21 5.8	27 13.8	9.973 4999	7 3080	13 29.1
15	13 2 37.56	2 54.06	− 9 48 19.6	25 42.8	9.966 1919	7 4990	13 28.2
16	13 5 31.62	2 42.33	10 14 2.4	24 4.7	9.958 6929	7 6859	13 27.0
17	13 8 13.95	2 29.65	10 38 7.1	22 18.9	9.951 0070	7 8666	13 25.7
18	13 10 43.60	2 15.93	11 0 26.0	20 24.5	9.943 1404	8 0376	13 24.1
19	13 12 59.53	2 1.08	11 20 50.5	18 20.5	9.935 1028	8 1946	13 22.3
20	13 15 0.61	1 45.04	11 39 11.0	16 6.3	9.926 9082	8 3331	13 20.2
21	13 16 45.65	1 27.72	−11 55 17.3	13 40.7	9.918 5751	8 4470	13 17.9
22	13 18 13.37	1 9.05	12 8 58.0	11 2.7	9.910 1281	8 5294	13 15.3
23	13 19 22.42	0 49.00	12 20 0.7	8 11.5	9.901 5987	8 5718	13 12.3
24	13 20 11.42	0 27.59	12 28 12.2	5 6.2	9.893 0269	8 5642	13 9.0
25	13 20 39.01	0 4.82	12 33 18.4	1 46.2	9.884 4627	8 4954	13 5.3
26	13 20 43.83	$\overline{0\;19.18}$	12 35 4.6	$\overline{1\;48.9}$	9.875 9673	8 3523	13 1.2
27	13 20 24.65	0 44.24	−12 33 15.7	5 38.9	9.867 6150	8 1207	12 56.7
28	13 19 40.41	1 10.08	12 27 36.8	9 43.0	9.859 4943	7 7850	12 51.8
29	13 18 30.33	1 36.30	12 17 53.8	13 59.4	9.851 7093	7 3290	12 46.5
30	13 16 54.03	2 2.42	12 3 54.4	18 24.8	9.844 3803	6 7374	12 40.8
Okt. 1	13 14 51.61	2 27.77	11 45 29.6	22 55.0	9.837 6429	5 9961	12 34.6
2	13 12 23.84	2 51.55	11 22 34.6	27 23.5	9.831 6468	5 0949	12 28.0
3	13 9 32.29	3 12.89	−10 55 11.1	31 42.7	9.826 5519	4 0283	12 21.1
4	13 6 19.40	3 30.82	10 23 28.4	35 43.0	9.822 5236	2 7984	12 13.8
5	13 2 48.58	3 44.37	9 47 45.4	39 13.5	9.819 7252	1 4174	12 6.2
6	12 59 4.21	3 52.66	9 8 31.9	42 3.4	9.818 3078	$\overline{928}$	11 58.5
7	12 55 11.55	3 54.91	8 26 28.5	44 2.3	9.818 4006	1 6994	11 50.7
8	12 51 16.64	3 50.64	7 42 26.2	45 1.6	9.820 1000	3 3597	11 42.9
9	12 47 26.00	3 39.69	− 6 57 24.6	44 55.4	9.823 4597	5 0245	11 35.2
10	12 43 46.31	3 22.18	6 12 29.2	43 41.3	9.828 4842	6 6419	11 27.8
11	12 40 24.13	2 58.63	5 28 47.9	41 21.4	9.835 1261	8 1609	11 20.7
12	12 37 25.50	2 29.84	4 47 26.5	38 1.2	9.843 2870	9 5371	11 14.0
13	12 34 55.66	1 56.84	4 9 25.3	33 49.1	9.852 8241	10 7354	11 7.9
14	12 32 58.82		− 3 35 36.2		9.863 5595		11 2.3

Tag	0h Welt-Zeit Scheinbare Rektaszension		Scheinbare Deklination		log Δ		Obere Kulmination in Greenwich
1929	h m s	m s	° ′ ″	′ ″			h m
Okt. 14	12 32 58.82	1 20.77	− 3 35 36.2	28 56.1	9.863 5595	11 7314	11 2.3
15	12 31 38.05	0 42.80	3 6 40.1	23 33.7	9.875 2909	12 5130	10 57.3
16	12 30 55.25	0 4.12	2 43 6.4	17 53.7	9.887 8039	13 0796	10 52.9
17	12 30 51.13	0 34.27	2 25 12.7	12 7.1	9.900 8835	13 4399	10 49.2
18	12 31 25.40	1 11.53	2 13 5.6	6 23.4	9.914 3234	13 6096	10 46.2
19	12 32 36.93	1 46.93	2 6 42.2	0 50.4	9.927 9330	13 6095	10 43.7
20	12 34 23.86	2 19.99	− 2 5 51.8	4 25.7	9.941 5425	13 4633	10 41.8
21	12 36 43.85	2 50.38	2 10 17.5	9 20.4	9.955 0058	13 1958	10 40.4
22	12 39 34.23	3 17.92	2 19 37.9	13 50.9	9.968 2016	12 8312	10 39.5
23	12 42 52.15	3 42.58	2 33 28.8	17 55.7	9.981 0328	12 3918	10 39.0
24	12 46 34.73	4 4.40	2 51 24.5	21 33.9	9.993 4246	11 8978	10 39.0
25	12 50 39.13	4 23.54	3 12 58.4	24 46.2	0.005 3224	11 3673	10 39.2
26	12 55 2.67	4 40.18	− 3 37 44.6	27 33.4	0.016 6897	10 8151	10 39.8
27	12 59 42.85	4 54.54	4 5 18.0	29 56.9	0.027 5048	10 2533	10 40.7
28	13 4 37.39	5 6.84	4 35 14.9	31 58.2	0.037 7581	9 6920	10 41.7
29	13 9 44.23	5 17.34	5 7 13.1	33 39.4	0.047 4501	9 1385	10 43.0
30	13 15 1.57	5 26.27	5 40 52.5	35 2.3	0.056 5886	8 5985	10 44.4
31	13 20 27.84	5 33.82	6 15 54.8	36 8.6	0.065 1871	8 0760	10 45.9
Nov. 1	13 26 1.66	5 40.22	− 6 52 3.4	37 0.0	0.073 2631	7 5735	10 47.6
2	13 31 41.88	5 45.62	7 29 3.4	37 38.2	0.080 8366	7 0930	10 49.4
3	13 37 27.50	5 50.20	8 6 41.6	38 5.0	0.087 9296	6 6350	10 51.3
4	13 43 17.70	5 54.09	8 44 46.6	38 21.3	0.094 5646	6 1995	10 53.2
5	13 49 11.79	5 57.41	9 23 7.9	38 28.5	0.100 7641	5 7864	10 55.2
6	13 55 9.20	6 0.27	10 1 36.4	38 27.7	0.106 5505	5 3950	10 57.2
7	14 1 9.47	6 2.75	−10 40 4.1	38 20.0	0.111 9455	5 0243	10 59.3
8	14 7 12.22	6 4.94	11 18 24.1	38 6.0	0.116 9698	4 6732	11 1.4
9	14 13 17.16	6 6.89	11 56 30.1	37 46.5	0.121 6430	4 3407	11 3.6
10	14 19 24.05	6 8.66	12 34 16.6	37 22.3	0.125 9837	4 0254	11 5.8
11	14 25 32.71	6 10.30	13 11 38.9	36 53.7	0.130 0091	3 7261	11 8.0
12	14 31 43.01	6 11.84	13 48 32.6	36 21.3	0.133 7352	3 4419	11 10.2
13	14 37 54.85	6 13.31	−14 24 53.9	35 45.4	0.137 1771	3 1714	11 12.5
14	14 44 8.16	6 14.74	15 0 39.3	35 6.5	0.140 3485	2 9136	11 14.8
15	14 50 22.90	6 16.16	15 35 45.8	34 24.9	0.143 2621	2 6673	11 17.1
16	14 56 39.06	6 17.58	16 10 10.7	33 40.7	0.145 9294	2 4315	11 19.4
17	15 2 56.64	6 19.00	16 43 51.4	32 54.1	0.148 3609	2 2052	11 21.8
18	15 9 15.64	6 20.43	17 16 45.5	32 5.4	0.150 5661	1 9875	11 24.2
19	15 15 36.07	6 21.91	−17 48 50.9	31 14.8	0.152 5536	1 7776	11 26.6
20	15 21 57.98	6 23.42	18 20 5.7	30 22.2	0.154 3312	1 5745	11 29.0
21	15 28 21.40	6 24.95	18 50 27.9	29 27.9	0.155 9057	1 3776	11 31.5
22	15 34 46.35	6 26.52	19 19 55.8	28 31.9	0.157 2833	1 1861	11 34.0
23	15 41 12.87	6 28.13	19 48 27.7	27 34.2	0.158 4694	9991	11 36.5
24	15 47 41.00		−20 16 1.9		0.159 4685		11 39.1

Tag	0h Welt-Zeit Scheinbare Rektaszension		Scheinbare Deklination		log Δ		Obere Kulmination in Greenwich
1929	h m s	m s	° ′ ″	′ ″			h m
Nov. 24	15 47 41.00	6 29.77	−20 16 1.9	26 35.0	0.159 4685	8163	11 39.1
25	15 54 10.77	6 31.43	20 42 36.9	25 34.2	0.160 2848	6370	11 41.6
26	16 0 42.20	6 33.13	21 8 11.1	24 32.0	0.160 9218	4603	11 44.2
27	16 7 15.33	6 34.84	21 32 43.1	23 28.1	0.161 3821	2859	11 46.9
28	16 13 50.17	6 36.56	21 56 11.2	22 22.9	0.161 6680	1134	11 49.5
29	16 20 26.73	6 38.28	22 18 34.1	21 16.2	0.161 7814	$\overline{580}$	11 52.2
30	16 27 5.01	6 40.01	−22 39 50.3	20 8.1	0.161 7234	2288	11 54.9
Dez. 1	16 33 45.02	6 41.73	22 59 58.4	18 58.5	0.161 4946	3995	11 57.7
2	16 40 26.75	6 43.42	23 18 56.9	17 47.5	0.161 0951	5705	12 0.4
3	16 47 10.17	6 45.07	23 36 44.4	16 35.2	0.160 5246	7425	12 3.2
4	16 53 55.24	6 46.70	23 53 19.6	15 21.5	0.159 7821	9159	12 6.1
5	17 0 41.94	6 48.27	24 8 41.1	14 6.3	0.158 8662	1 0913	12 8.9
6	17 7 30.21	6 49.77	−24 22 47.4	12 49.7	0.157 7749	1 2690	12 11.8
7	17 14 19.98	6 51.19	24 35 37.1	11 31.7	0.156 5059	1 4500	12 14.7
8	17 21 11.17	6 52.52	24 47 8.8	10 12.4	0.155 0559	1 6347	12 17.6
9	17 28 3.69	6 53.74	24 57 21.2	8 51.8	0.153 4212	1 8234	12 20.6
10	17 34 57.43	6 54.82	25 6 13.0	7 29.8	0.151 5978	2 0173	12 23.6
11	17 41 52.25	6 55.77	25 13 42.8	6 6.5	0.149 5805	2 2166	12 26.5
12	17 48 48.02	6 56.55	−25 19 49.3	4 42.1	0.147 3639	2 4221	12 29.5
13	17 55 44.57	6 57.14	25 24 31.4	3 16.3	0.144 9418	2 6345	12 32.6
14	18 2 41.71	6 57.51	25 27 47.7	1 49.4	0.142 3073	2 8545	12 35.6
15	18 9 39.22	6 57.66	25 29 37.1	0 21.5	0.139 4528	3 0832	12 38.6
16	18 16 36.88	6 57.53	25 29 58.6	$\overline{1\ 7.4}$	0.136 3696	3 3214	12 41.6
17	18 23 34.41	6 57.11	25 28 51.2	2 37.3	0.133 0482	3 5696	12 44.6
18	18 30 31.52	6 56.36	−25 26 13.9	4 7.8	0.129 4786	3 8292	12 47.6
19	18 37 27.88	6 55.23	25 22 6.1	5 39.0	0.125 6494	4 1013	12 50.6
20	18 44 23.11	6 53.67	25 16 27.1	7 10.7	0.121 5481	4 3866	12 53.6
21	18 51 16.78	6 51.64	25 9 16.4	8 42.5	0.117 1615	4 6861	12 56.6
22	18 58 8.42	6 49.08	25 0 33.9	10 14.3	0.112 4754	5 0011	12 59.5
23	19 4 57.50	6 45.92	24 50 19.6	11 45.7	0.107 4743	5 3329	13 2.3
24	19 11 43.42	6 42.07	−24 38 33.9	13 16.4	0.102 1414	5 6821	13 5.1
25	19 18 25.49	6 37.46	24 25 17.5	14 45.8	0.096 4593	6 0496	13 7.8
26	19 25 2.95	6 31.99	24 10 31.7	16 13.6	0.090 4097	6 4366	13 10.5
27	19 31 34.94	6 25.53	23 54 18.1	17 39.1	0.083 9731	6 8438	13 13.0
28	19 38 0.47	6 17.97	23 36 39.0	19 1.6	0.077 1293	7 2712	13 15.4
29	19 44 18.44	6 9.15	23 17 37.4	20 20.1	0.069 8581	7 7191	13 17.7
30	19 50 27.59	5 58.92	−22 57 17.3	21 33.8	0.062 1390	8 1868	13 19.8
31	19 56 26.51	5 47.10	22 35 43.5	22 41.6	0.053 9522	8 6731	13 21.8
32	20 2 13.61		−22 13 1.9		0.045 2791		13 23.5

Tag	0h Welt-Zeit: Scheinbare Rektaszension		Scheinbare Deklination		log Δ		Obere Kulmination in Greenwich
1929	h m s	m s	° ′ ″	′ ″			h m
Jan. 0	21 41 37.47	4 31.16	−15 42 35.8	25 17.7	9.988 9973	3 0868	15 5.3
1	21 46 8.63	4 29.48	15 17 18.1	25 39.4	9.985 9105	3 1172	15 5.9
2	21 50 38.11	4 27.81	14 51 38.7	26 0.3	9.982 7933	3 1481	15 6.4
3	21 55 5.92	4 26.15	14 25 38.4	26 20.4	9.979 6452	3 1795	15 6.9
4	21 59 32.07	4 24.50	13 59 18.0	26 39.9	9.976 4657	3 2114	15 7.4
5	22 3 56.57	4 22.87	13 32 38.1	26 58.4	9.973 2543	3 2440	15 7.8
6	22 8 19.44	4 21.24	−13 5 39.7	27 16.1	9.970 0103	3 2770	15 8.3
7	22 12 40.68	4 19.62	12 38 23.6	27 33.1	9.966 7333	3 3107	15 8.6
8	22 17 0.30	4 18.02	12 10 50.5	27 49.4	9.963 4226	3 3449	15 9.0
9	22 21 18.32	4 16.43	11 43 1.1	28 4.8	9.960 0777	3 3796	15 9.4
10	22 25 34.75	4 14.85	11 14 56.3	28 19.3	9.956 6981	3 4151	15 9.7
11	22 29 49.60	4 13.27	10 46 37.0	28 33.2	9.953 2830	3 4511	15 9.9
12	22 34 2.87	4 11.72	−10 18 3.8	28 46.2	9.949 8319	3 4877	15 10.2
13	22 38 14.59	4 10.17	9 49 17.6	28 58.4	9.946 3442	3 5251	15 10.5
14	22 42 24.76	4 8.63	9 20 19.2	29 9.9	9.942 8191	3 5630	15 10.7
15	22 46 33.39	4 7.10	8 51 9.3	29 20.4	9.939 2561	3 6014	15 10.8
16	22 50 40.49	4 5.57	8 21 48.9	29 30.3	9.935 6547	3 6405	15 11.0
17	22 54 46.06	4 4.06	7 52 18.6	29 39.4	9.932 0142	3 6800	15 11.1
18	22 58 50.12	4 2.56	− 7 22 39.2	29 47.5	9.928 3342	3 7201	15 11.2
19	23 2 52.68	4 1.05	6 52 51.7	29 55.0	9.924 6141	3 7607	15 11.3
20	23 6 53.73	3 59.55	6 22 56.7	30 1.6	9.920 8534	3 8018	15 11.4
21	23 10 53.28	3 58.07	5 52 55.1	30 7.4	9.917 0516	3 8434	15 11.4
22	23 14 51.35	3 56.58	5 22 47.7	30 12.5	9.913 2082	3 8853	15 11.4
23	23 18 47.93	3 55.11	4 52 35.2	30 16.8	9.909 3229	3 9276	15 11.4
24	23 22 43.04	3 53.65	− 4 22 18.4	30 20.4	9.905 3953	3 9705	15 11.4
25	23 26 36.69	3 52.19	3 51 58.0	30 23.2	9.901 4248	4 0137	15 11.3
26	23 30 28.88	3 50.75	3 21 34.8	30 25.3	9.897 4111	4 0575	15 11.2
27	23 34 19.63	3 49.31	2 51 9.5	30 26.7	9.893 3536	4 1018	15 11.1
28	23 38 8.94	3 47.87	2 20 42.8	30 27.4	9.889 2518	4 1467	15 11.0
29	23 41 56.81	3 46.44	1 50 15.4	30 27.4	9.885 1051	4 1924	15 10.8
30	23 45 43.25	3 45.01	− 1 19 48.0	30 26.7	9.880 9127	4 2388	15 10.6
31	23 49 28.26	3 43.58	0 49 21.3	30 25.2	9.876 6739	4 2858	15 10.4
Febr. 1	23 53 11.84	3 42.14	− 0 18 56.1	30 23.0	9.872 3881	4 3335	15 10.2
2	23 56 53.98	3 40.71	+ 0 11 26.9	30 20.3	9.868 0546	4 3820	15 9.9
3	0 0 34.69	3 39.26	0 41 47.2	30 16.8	9.863 6726	4 4314	15 9.7
4	0 4 13.95	3 37.81	1 12 4.0	30 12.6	9.859 2412	4 4815	15 9.4
5	0 7 51.76	3 36.33	+ 1 42 16.6	30 7.7	9.854 7597	4 5326	15 9.0
6	0 11 28.09	3 34.84	2 12 24.3	30 2.0	9.850 2271	4 5845	15 8.7
7	0 15 2.93	3 33.34	2 42 26.3	29 55.6	9.845 6426	4 6372	15 8.3
8	0 18 36.27	3 31.80	3 12 21.9	29 48.5	9.841 0054	4 6907	15 7.9
9	0 22 8.07	3 30.23	3 42 10.4	29 40.8	9.836 3147	4 7452	15 7.5
10	0 25 38.30		+ 4 11 51.2		9.831 5695		15 7.0

Tag	0h Welt-Zeit: Scheinbare Rektaszension		Scheinbare Deklination		log Δ		Obere Kulmination in Greenwich
1929	h m s	m s	° ′ ″	′ ″			h m
Febr. 10	0 25 38.30	3 28.64	+ 4 11 51.2	29 32.2	9.831 5695	4 8005	15 7.0
11	0 29 6.94	3 27.01	4 41 23.4	29 22.8	9.826 7690	4 8567	15 6.5
12	0 32 33.95	3 25.33	5 10 46.2	29 12.9	9.821 9123	4 9137	15 6.0
13	0 35 59.28	3 23.61	5 39 59.1	29 2.2	9.816 9986	4 9714	15 5.5
14	0 39 22.89	3 21.84	6 9 1.3	28 50.6	9.812 0272	5 0298	15 4.9
15	0 42 44.73	3 20.01	6 37 51.9	28 38.2	9.806 9974	5 0890	15 4.3
16	0 46 4.74	3 18.12	+ 7 6 30.1	28 25.2	9.801 9084	5 1486	15 3.7
17	0 49 22.86	3 16.17	7 34 55.3	28 11.3	9.796 7598	5 2088	15 3.0
18	0 52 39.03	3 14.14	8 3 6.6	27 56.5	9.791 5510	5 2695	15 2.3
19	0 55 53.17	3 12.05	8 31 3.1	27 41.0	9.786 2815	5 3305	15 1.6
20	0 59 5.22	3 9.88	8 58 44.1	27 24.8	9.780 9510	5 3918	15 0.8
21	1 2 15.10	3 7.62	9 26 8.9	27 7.8	9.775 5592	5 4533	15 0.0
22	1 5 22.72	3 5.30	+ 9 53 16.7	26 49.9	9.770 1059	5 5149	14 59.2
23	1 8 28.02	3 2.88	10 20 6.6	26 31.3	9.764 5910	5 5768	14 58.3
24	1 11 30.90	3 0.36	10 46 37.9	26 12.0	9.759 0142	5 6388	14 57.4
25	1 14 31.26	2 57.76	11 12 49.9	25 51.9	9.753 3754	5 7009	14 56.4
26	1 17 29.02	2 55.05	11 38 41.8	25 30.9	9.747 6745	5 7629	14 55.4
27	1 20 24.07	2 52.23	12 4 12.7	25 9.3	9.741 9116	5 8251	14 54.4
28	1 23 16.30	2 49.30	+12 29 22.0	24 46.8	9.736 0865	5 8873	14 53.3
März 1	1 26 5.60	2 46.24	12 54 8.8	24 23.5	9.730 1992	5 9493	14 52.1
2	1 28 51.84	2 43.05	13 18 32.3	23 59.5	9.724 2499	6 0111	14 50.9
3	1 31 34.89	2 39.71	13 42 31.8	23 34.4	9.718 2388	6 0727	14 49.7
4	1 34 14.60	2 36.24	14 6 6.2	23 8.5	9.712 1661	6 1339	14 48.4
5	1 36 50.84	2 32.61	14 29 14.7	22 41.8	9.706 0322	6 1944	14 47.0
6	1 39 23.45	2 28.80	+14 51 56.5	22 14.0	9.699 8378	6 2545	14 45.5
7	1 41 52.25	2 24.83	15 14 10.5	21 45.2	9.693 5833	6 3137	14 44.0
8	1 44 17.08	2 20.68	15 35 55.7	21 15.4	9.687 2696	6 3718	14 42.5
9	1 46 37.76	2 16.33	15 57 11.1	20 44.6	9.680 8978	6 4285	14 40.8
10	1 48 54.09	2 11.79	16 17 55.7	20 12.7	9.674 4693	6 4838	14 39.1
11	1 51 5.88	2 7.02	16 38 8.4	19 39.4	9.667 9855	6 5375	14 37.3
12	1 53 12.90	2 2.03	+16 57 47.8	19 4.9	9.661 4480	6 5889	14 35.5
13	1 55 14.93	1 56.82	17 16 52.7	18 29.2	9.654 8591	6 6376	14 33.5
14	1 57 11.75	1 51.36	17 35 21.9	17 52.0	9.648 2215	6 6834	14 31.4
15	1 59 3.11	1 45.65	17 53 13.9	17 13.3	9.641 5381	6 7257	14 29.3
16	2 0 48.76	1 39.68	18 10 27.2	16 33.0	9.634 8124	6 7638	14 27.1
17	2 2 28.44	1 33.44	18 27 0.2	15 51.0	9.628 0486	6 7969	14 24.7
18	2 4 1.88	1 26.95	+18 42 51.2	15 7.3	9.621 2517	6 8249	14 22.3
19	2 5 28.83	1 20.20	18 57 58.5	14 21.8	9.614 4268	6 8470	14 19.7
20	2 6 49.03	1 13.18	19 12 20.3	13 34.5	9.607 5798	6 8623	14 17.1
21	2 8 2.21	1 5.88	19 25 54.8	12 45.2	9.600 7175	6 8700	14 14.3
22	2 9 8.09	0 58.34	19 38 40.0	11 53.8	9.593 8475	6 8691	14 11.4
23	2 10 6.43		+19 50 33.8		9.586 9784		14 8.3

Tag	0h Welt-Zeit Scheinbare Rektaszension		Scheinbare Deklination		log Δ		Obere Kulmination in Greenwich
1929	h m s	m s	° ′ ″	′ ″			h m
März 23	2 10 6.43	0 50.56	+19 50 33.8	11 0.1	9.586 9784	6 8593	14 8.3
24	2 10 56.99	0 42.53	20 1 33.9	10 4.4	9.580 1191	6 8397	14 5.1
25	2 11 39.52	0 34.28	20 11 38.3	9 6.5	9.573 2794	6 8089	14 1.8
26	2 12 13.80	0 25.82	20 20 44.8	8 6.2	9.566 4705	6 7664	13 58.4
27	2 12 39.62	0 17.16	20 28 51.0	7 3.5	9.559 7041	6 7115	13 54.8
28	2 12 56.78	0 8.34	20 35 54.5	5 58.4	9.552 9926	6 6431	13 51.1
29	2 13 5.12	0 0.61	+20 41 52.9	4 50.9	9.546 3495	6 5602	13 47.2
30	2 13 4.51	0 9.67	20 46 43.8	3 41.0	9.539 7893	6 4619	13 43.2
31	2 12 54.84	0 18.81	20 50 24.8	2 28.4	9.533 3274	6 3467	13 39.0
April 1	2 12 36.03	0 27.99	20 52 53.2	1 13.3	9.526 9807	6 2139	13 34.7
2	2 12 8.04	0 37.15	20 54 6.5	0 4.0	9.520 7668	6 0630	13 30.2
3	2 11 30.89	0 46.26	20 54 2.5	1 23.4	9.514 7038	5 8931	13 25.6
4	2 10 44.63	0 55.25	+20 52 39.1	2 44.9	9.508 8107	5 7028	13 20.8
5	2 9 49.38	1 4.05	20 49 54.2	4 8.4	9.503 1079	5 4915	13 15.8
6	2 8 45.33	1 12.63	20 45 45.8	5 33.2	9.497 6164	5 2590	13 10.8
7	2 7 32.70	1 20.91	20 40 12.6	6 59.2	9.492 3574	5 0049	13 5.6
8	2 6 11.79	1 28.81	20 33 13.4	8 26.1	9.487 3525	4 7285	13 0.2
9	2 4 42.98	1 36.28	20 24 47.3	9 53.2	9.482 6240	4 4302	12 54.8
10	2 3 6.70	1 43.26	+20 14 54.1	11 20.1	9.478 1938	4 1102	12 49.2
11	2 1 23.44	1 49.66	20 3 34.0	12 46.3	9.474 0836	3 7685	12 43.5
12	1 59 33.78	1 55.41	19 50 47.7	14 11.0	9.470 3151	3 4052	12 37.7
13	1 57 38.37	2 0.45	19 36 36.7	15 33.4	9.466 9099	3 0219	12 31.8
14	1 55 37.92	2 4.73	19 21 3.3	16 52.7	9.463 8880	2 6205	12 25.8
15	1 53 33.19	2 8.19	19 4 10.6	18 8.2	9.461 2675	2 2021	12 19.8
16	1 51 25.00	2 10.79	+18 46 2.4	19 19.2	9.459 0654	1 7685	12 13.7
17	1 49 14.21	2 12.47	18 26 43.2	20 24.9	9.457 2969	1 3220	12 7.6
18	1 47 1.74	2 13.23	18 6 18.3	21 24.4	9.455 9749	8658	12 1.5
19	1 44 48.51	2 13.04	17 44 53.9	22 16.8	9.455 1091	4026	11 55.3
20	1 42 35.47	2 11.91	17 22 37.1	23 1.9	9.454 7065	647	11 49.2
21	1 40 23.56	2 9.85	16 59 35.2	23 39.1	9.454 7712	5329	11 43.1
22	1 38 13.71	2 6.92	+16 35 56.1	24 7.9	9.455 3041	9988	11 37.0
23	1 36 6.79	2 3.12	16 11 48.2	24 28.2	9.456 3029	1 4590	11 31.0
24	1 34 3.67	1 58.49	15 47 20.0	24 39.8	9.457 7619	1 9102	11 25.1
25	1 32 5.18	1 53.12	15 22 40.2	24 42.9	9.459 6721	2 3498	11 19.2
26	1 30 12.06	1 47.09	14 57 57.3	24 37.4	9.462 0219	2 7757	11 13.5
27	1 28 24.97	1 40.43	14 33 19.9	24 23.7	9.464 7976	3 1854	11 7.8
28	1 26 44.54	1 33.23	+14 8 56.2	24 2.4	9.467 9830	3 5762	11 2.3
29	1 25 11.31	1 25.57	13 44 53.8	23 33.8	9.471 5592	3 9471	10 56.9
30	1 23 45.74	1 17.52	13 21 20.0	22 58.5	9.475 5063	4 2971	10 51.6
Mai 1	1 22 28.22	1 9.17	12 58 21.5	22 17.0	9.479 8034	4 6250	10 46.4
2	1 21 19.05	1 0.56	12 36 4.5	21 30.1	9.484 4284	4 9297	10 41.4
3	1 20 18.49		+12 14 34.4		9.489 3581		10 36.5

Tag		0h Welt-Zeit Scheinbare Rektaszension		Scheinbare Deklination		log Δ		Obere Kulmination in Greenwich
1929		h m s	m s	° ' "	' "			h m
Mai	3	1 20 18.49	0 51.76	+12 14 34.4	20 38.3	9.489 3581	5 2114	10 36.5
	4	1 19 26.73	0 42.86	11 53 56.1	19 42.5	9.494 5695	5 4702	10 31.8
	5	1 18 43.87	0 33.89	11 34 13.6	18 43.1	9.500 0397	5 7061	10 27.2
	6	1 18 9.98	0 24.92	11 15 30.5	17 40.9	9.505 7458	5 9197	10 22.8
	7	1 17 45.06	0 16.00	10 57 49.6	16 36.4	9.511 6655	6 1117	10 18.5
	8	1 17 29.06	0 7.15	10 41 13.2	15 30.3	9.517 7772	6 2831	10 14.4
	9	1 17 21.91	0 1.58	+10 25 42.9	14 23.1	9.524 0603	6 4349	10 10.4
	10	1 17 23.49	0 10.17	10 11 19.8	13 15.2	9.530 4952	6 5680	10 6.6
	11	1 17 33.66	0 18.60	9 58 4.6	12 6.9	9.537 0632	6 6836	10 2.9
	12	1 17 52.26	0 26.87	9 45 57.7	10 58.6	9.543 7468	6 7830	9 59.3
	13	1 18 19.13	0 34.94	9 34 59.1	9 50.6	9.550 5298	6 8672	9 55.9
	14	1 18 54.07	0 42.80	9 25 8.5	8 43.3	9.557 3970	6 9371	9 52.6
	15	1 19 36.87	0 50.45	+ 9 16 25.2	7 36.8	9.564 3341	6 9936	9 49.4
	16	1 20 27.32	0 57.90	9 8 48.4	6 31.2	9.571 3277	7 0378	9 46.4
	17	1 21 25.22	1 5.13	9 2 17.2	5 26.9	9.578 3655	7 0705	9 43.4
	18	1 22 30.35	1 12.15	8 56 50.3	4 23.8	9.585 4360	7 0925	9 40.6
	19	1 23 42.50	1 18.95	8 52 26.5	3 22.2	9.592 5285	7 1047	9 37.9
	20	1 25 1.45	1 25.54	8 49 4.3	2 22.4	9.599 6332	7 1081	9 35.4
	21	1 26 26.99	1 31.91	+ 8 46 41.9	1 24.2	9.606 7413	7 1031	9 32.9
	22	1 27 58.90	1 38.07	8 45 17.7	0 27.6	9.613 8444	7 0905	9 30.5
	23	1 29 36.97	1 44.01	8 44 50.1	0 27.1	9.620 9349	7 0709	9 28.3
	24	1 31 20.98	1 49.75	8 45 17.2	1 20.0	9.628 0058	7 0451	9 26.1
	25	1 33 10.73	1 55.29	8 46 37.2	2 10.9	9.635 0509	7 0137	9 24.0
	26	1 35 6.02	2 0.63	8 48 48.1	2 59.9	9.642 0646	6 9773	9 22.0
	27	1 37 6.65	2 5.78	+ 8 51 48.0	3 47.1	9.649 0419	6 9363	9 20.1
	28	1 39 12.43	2 10.76	8 55 35.1	4 32.3	9.655 9782	6 8912	9 18.3
	29	1 41 23.19	2 15.54	9 0 7.4	5 15.6	9.662 8694	6 8427	9 16.6
	30	1 43 38.73	2 20.15	9 5 23.0	5 57.0	9.669 7121	6 7910	9 14.9
	31	1 45 58.88	2 24.61	9 11 20.0	6 36.4	9.676 5031	6 7364	9 13.4
Juni	1	1 48 23.49	2 28.90	9 17 56.4	7 14.1	9.683 2395	6 6793	9 11.9
	2	1 50 52.39	2 33.04	+ 9 25 10.5	7 49.8	9.689 9188	6 6204	9 10.4
	3	1 53 25.43	2 37.03	9 33 0.3	8 23.6	9.696 5392	6 5596	9 9.1
	4	1 56 2.46	2 40.87	9 41 23.9	8 55.8	9.703 0988	6 4974	9 7.8
	5	1 58 43.33	2 44.58	9 50 19.7	9 26.1	9.709 5962	6 4339	9 6.5
	6	2 1 27.91	2 48.16	9 59 45.8	9 54.6	9.716 0301	6 3697	9 5.4
	7	2 4 16.07	2 51.62	10 9 40.4	10 21.5	9.722 3998	6 3051	9 4.3
	8	2 7 7.69	2 54.96	+10 20 1.9	10 46.7	9.728 7049	6 2402	9 3.2
	9	2 10 2.65	2 58.21	10 30 48.6	11 10.4	9.734 9451	6 1752	9 2.2
	10	2 13 0.86	3 1.35	10 41 59.0	11 32.5	9.741 1203	6 1101	9 1.2
	11	2 16 2.21	3 4.40	10 53 31.5	11 53.0	9.747 2304	6 0451	9 0.3
	12	2 19 6.61	3 7.37	11 5 24.5	12 12.2	9.753 2755	5 9804	8 59.5
	13	2 22 13.98		+11 17 36.7		9.759 2559		8 58.7

Tag	0h Welt-Zeit Scheinbare Rektaszension		Scheinbare Deklination		log Δ		Obere Kulmination in Greenwich
1929	h m s	m s	° ′ ″	′ ″			h m
Juni 13	2 22 13.98	3 10.26	+11 17 36.7	12 30.0	9.759 2559	5 9159	8 58.7
14	2 25 24.24	3 13.08	11 30 6.7	12 46.4	9.765 1718	5 8516	8 57.9
15	2 28 37.32	3 15.85	11 42 53.1	13 1.4	9.771 0234	5 7877	8 57.2
16	2 31 53.17	3 18.54	11 55 54.5	13 15.2	9.776 8111	5 7240	8 56.6
17	2 35 11.71	3 21.18	12 9 9.7	13 27.7	9.782 5351	5 6608	8 56.0
18	2 38 32.89	3 23.76	12 22 37.4	13 38.9	9.788 1959	5 5979	8 55.4
19	2 41 56.65	3 26.29	+12 36 16.3	13 48.8	9.793 7938	5 5352	8 54.8
20	2 45 22.94	3 28.77	12 50 5.1	13 57.5	9.799 3290	5 4730	8 54.3
21	2 48 51.71	3 31.21	13 4 2.6	14 5.0	9.804 8020	5 4112	8 53.9
22	2 52 22.92	3 33.60	13 18 7.6	14 11.3	9.810 2132	5 3498	8 53.5
23	2 55 56.52	3 35.95	13 32 18.9	14 16.5	9.815 5630	5 2889	8 53.1
24	2 59 32.47	3 38.27	13 46 35.4	14 20.4	9.820 8519	5 2283	8 52.8
25	3 3 10.74	3 40.53	+14 0 55.8	14 23.3	9.826 0802	5 1683	8 52.5
26	3 6 51.27	3 42.76	14 15 19.1	14 25.1	9.831 2485	5 1088	8 52.2
27	3 10 34.03	3 44.96	14 29 44.2	14 25.6	9.836 3573	5 0497	8 52.0
28	3 14 18.99	3 47.13	14 44 9.8	14 25.1	9.841 4070	4 9911	8 51.8
29	3 18 6.12	3 49.25	14 58 34.9	14 23.6	9.846 3981	4 9331	8 51.7
30	3 21 55.37	3 51.34	15 12 58.5	14 20.8	9.851 3312	4 8756	8 51.6
Juli 1	3 25 46.71	3 53.40	+15 27 19.3	14 17.1	9.856 2068	4 8186	8 51.5
2	3 29 40.11	3 55.42	15 41 36.4	14 12.2	9.861 0254	4 7622	8 51.5
3	3 33 35.53	3 57.40	15 55 48.6	14 6.3	9.865 7876	4 7063	8 51.5
4	3 37 32.93	3 59.36	16 9 54.9	13 59.5	9.870 4939	4 6512	8 51.5
5	3 41 32.29	4 1.28	16 23 54.4	13 51.6	9.875 1451	4 5969	8 51.6
6	3 45 33.57	4 3.17	16 37 46.0	13 42.7	9.879 7420	4 5433	8 51.7
7	3 49 36.74	4 5.0	+16 51 28.7	13 32.9	9.884 2853	4 4907	8 51.8
8	3 53 41.76	4 6.85	17 5 1.6	13 22.0	9.888 7760	4 4389	8 51.9
9	3 57 48.61	4 8.66	17 18 23.6	13 10.4	9.893 2149	4 3879	8 52.1
10	4 1 57.27	4 10.44	17 31 34.0	12 57.8	9.897 6028	4 3377	8 52.3
11	4 6 7.71	4 12.18	17 44 31.8	12 44.3	9.901 9405	4 2884	8 52.6
12	4 10 19.89	4 13.92	17 57 16.1	12 30.1	9.906 2289	4 2400	8 52.8
13	4 14 33.81	4 15.63	+18 9 46.2	12 14.9	9.910 4689	4 1922	8 53.1
14	4 18 49.44	4 17.31	18 22 1.1	11 59.0	9.914 6611	4 1452	8 53.5
15	4 23 6.75	4 18.98	18 34 0.1	11 42.2	9.918 8063	4 0989	8 53.8
16	4 27 25.73	4 20.62	18 45 42.3	11 24.6	9.922 9052	4 0532	8 54.2
17	4 31 46.35	4 22.24	18 57 6.9	11 6.3	9.926 9584	4 0080	8 54.6
18	4 36 8.59	4 23.84	19 8 13.2	10 47.1	9.930 9664	3 9634	8 55.0
19	4 40 32.43	4 25.41	+19 19 0.3	10 27.3	9.934 9298	3 9193	8 55.5
20	4 44 57.84	4 26.95	19 29 27.6	10 6.6	9.938 8491	3 8758	8 56.0
21	4 49 24.79	4 28.47	19 39 34.2	9 45.2	9.942 7249	3 8327	8 56.5
22	4 53 53.26	4 29.96	19 49 19.4	9 23.0	9.946 5576	3 7902	8 57.1
23	4 58 23.22	4 31.42	19 58 42.4	9 0.1	9.950 3478	3 7481	8 57.6
24	5 2 54.64		+20 7 42.5		9.954 0959		8 58.2

Venus 1929

Tag	0h Welt-Zeit: Scheinbare Rektaszension	Diff.	Scheinbare Deklination	Diff.	log Δ	Diff.	Obere Kulmination in Greenwich
1929	h m s	m s	° ′ ″	′ ″			h m
Juli 24	5 2 54.64	4 32.85	+20 7 42.5	8 36.6	9.954 0959	3 7066	8 58.2
25	5 7 27.49	4 34.25	20 16 19.1	8 12.4	9.957 8025	3 6654	8 58.8
26	5 12 1.74	4 35.60	20 24 31.5	7 47.5	9.961 4679	3 6245	8 59.5
27	5 16 37.34	4 36.93	20 32 19.0	7 21.9	9.965 0924	3 5842	9 0.1
28	5 21 14.27	4 38.22	20 39 40.9	6 55.7	9.968 6766	3 5442	9 0.8
29	5 25 52.49	4 39.46	20 46 36.6	6 29.0	9.972 2208	3 5045	9 1.5
30	5 30 31.95	4 40.67	+20 53 5.6	6 1.5	9.975 7253	3 4653	9 2.2
31	5 35 12.62	4 41.83	20 59 7.1	5 33.5	9.979 1906	3 4263	9 3.0
Aug. 1	5 39 54.45	4 42.94	21 4 40.6	5 5.0	9.982 6169	3 3877	9 3.7
2	5 44 37.39	4 44.00	21 9 45.6	4 35.9	9.986 0046	3 3498	9 4.5
3	5 49 21.39	4 45.02	21 14 21.5	4 6.3	9.989 3544	3 3123	9 5.3
4	5 54 6.41	4 45.99	21 18 27.8	3 36.2	9.992 6667	3 2753	9 6.1
5	5 58 52.40	4 46.92	+21 22 4.0	3 5.8	9.995 9420	3 2390	9 7.0
6	6 3 39.32	4 47.79	21 25 9.8	2 34.8	9.999 1810	3 2031	9 7.8
7	6 8 27.11	4 48.61	21 27 44.6	2 3.5	0.002 3841	3 1678	9 8.6
8	6 13 15.72	4 49.38	21 29 48.1	1 31.8	0.005 5519	3 1332	9 9.5
9	6 18 5.10	4 50.12	21 31 19.9	0 59.9	0.008 6851	3 0989	9 10.4
10	6 22 55.22	4 50.80	21 32 19.8	0 27.5	0.011 7840	3 0652	9 11.3
11	6 27 46.02	4 51.43	+21 32 47.3	0 5.1	0.014 8492	3 0321	9 12.2
12	6 32 37.45	4 52.02	21 32 42.2	0 38.0	0.017 8813	2 9994	9 13.1
13	6 37 29.47	4 52.58	21 32 4.2	1 11.1	0.020 8807	2 9673	9 14.1
14	6 42 22.05	4 53.08	21 30 53.1	1 44.5	0.023 8480	2 9355	9 15.0
15	6 47 15.13	4 53.53	21 29 8.6	2 18.0	0.026 7835	2 9041	9 16.0
16	6 52 8.66	4 53.95	21 26 50.6	2 51.8	0.029 6876	2 8729	9 16.9
17	6 57 2.61	4 54.31	+21 23 58.8	3 25.7	0.032 5605	2 8422	9 17.9
18	7 1 56.92	4 54.63	21 20 33.1	3 59.6	0.035 4027	2 8118	9 18.8
19	7 6 51.55	4 54.90	21 16 33.5	4 33.7	0.038 2145	2 7817	9 19.8
20	7 11 46.45	4 55.13	21 11 59.8	5 7.8	0.040 9962	2 7520	9 20.8
21	7 16 41.58	4 55.31	21 6 52.0	5 42.1	0.043 7482	2 7225	9 21.8
22	7 21 36.89	4 55.45	21 1 9.9	6 16.3	0.046 4707	2 6931	9 22.7
23	7 26 32.34	4 55.54	+20 54 53.6	6 50.6	0.049 1638	2 6641	9 23.7
24	7 31 27.88	4 55.60	20 48 3.0	7 24.8	0.051 8279	2 6354	9 24.7
25	7 36 23.48	4 55.61	20 40 38.2	7 59.0	0.054 4633	2 6067	9 25.7
26	7 41 19.09	4 55.57	20 32 39.2	8 33.1	0.057 0700	2 5782	9 26.7
27	7 46 14.66	4 55.48	20 24 6.1	9 7.1	0.059 6482	2 5500	9 27.7
28	7 51 10.14	4 55.36	20 14 59.0	9 40.9	0.062 1982	2 5219	9 28.6
29	7 56 5.50	4 55.19	+20 5 18.1	10 14.6	0.064 7201	2 4941	9 29.6
30	8 1 0.69	4 54.99	19 55 3.5	10 48.1	0.067 2142	2 4665	9 30.6
31	8 5 55.68	4 54.74	19 44 15.4	11 21.3	0.069 6807	2 4392	9 31.6
Sept. 1	8 10 50.42	4 54.45	19 32 54.1	11 54.4	0.072 1199	2 4121	9 32.5
2	8 15 44.87	4 54.12	19 20 59.7	12 27.1	0.074 5320	2 3853	9 33.5
3	8 20 38.99		+19 8 32.6		0.076 9173		9 34.5

Tag	0h Welt-Zeit: Scheinbare Rektaszension		0h Welt-Zeit: Scheinbare Deklination		0h Welt-Zeit: log Δ		Obere Kulmination in Greenwich
1929	h m s	m s	° ′ ″	′ ″			h m
Sept. 3	8 20 38.99	4 53.76	+19 8 32.6	12 59.5	0.076 9173	2 3589	9 34.5
4	8 25 32.75	4 53.37	18 55 33.1	13 31.7	0.079 2762	2 3327	9 35.4
5	8 30 26.12	4 52.95	18 42 1.4	14 3.5	0.081 6089	2 3070	9 36.4
6	8 35 19.07	4 52.49	18 27 57.9	14 34.9	0.083 9159	2 2816	9 37.3
7	8 40 11.56	4 52.01	18 13 23.0	15 5.9	0.086 1975	2 2566	9 38.2
8	8 45 3.57	4 51.51	17 58 17.1	15 36.6	0.088 4541	2 2319	9 39.1
9	8 49 55.08	4 50.99	+17 42 40.5	16 6.9	0.090 6860	2 2076	9 40.1
10	8 54 46.07	4 50.46	17 26 33.6	16 36.8	0.092 8936	2 1835	9 41.0
11	8 59 36.53	4 49.90	17 9 56.8	17 6.1	0.095 0771	2 1597	9 41.9
12	9 4 26.43	4 49.33	16 52 50.7	17 35.2	0.097 2368	2 1363	9 42.7
13	9 9 15.76	4 48.75	16 35 15.5	18 3.6	0.099 3731	2 1131	9 43.6
14	9 14 4.51	4 48.17	16 17 11.9	18 31.7	0.101 4862	2 0902	9 44.5
15	9 18 52.68	4 47.58	+15 58 40.2	18 59.2	0.103 5764	2 0674	9 45.3
16	9 23 40.26	4 46.97	15 39 41.0	19 26.3	0.105 6438	2 0449	9 46.2
17	9 28 27.23	4 46.36	15 20 14.7	19 52.8	0.107 6887	2 0226	9 47.0
18	9 33 13.59	4 45.75	15 0 21.9	20 18.9	0.109 7113	2 0004	9 47.9
19	9 37 59.34	4 45.14	14 40 3.0	20 44.3	0.111 7117	1 9785	9 48.7
20	9 42 44.48	4 44.54	14 19 18.7	21 9.3	0.113 6902	1 9567	9 49.5
21	9 47 29.02	4 43.94	+13 58 9.4	21 33.7	0.115 6469	1 9351	9 50.3
22	9 52 12.96	4 43.34	13 36 35.7	21 57.6	0.117 5820	1 9135	9 51.1
23	9 56 56.30	4 42.75	13 14 38.1	22 20.8	0.119 4955	1 8921	9 51.8
24	10 1 39.05	4 42.17	12 52 17.3	22 43.5	0.121 3876	1 8707	9 52.6
25	10 6 21.22	4 41.58	12 29 33.8	23 5.6	0.123 2583	1 8494	9 53.4
26	10 11 2.80	4 41.00	12 6 28.2	23 27.2	0.125 1077	1 8282	9 54.1
27	10 15 43.80	4 40.44	+11 43 1.0	23 48.0	0.126 9359	1 8070	9 54.8
28	10 20 24.24	4 39.88	11 19 13.0	24 8.2	0.128 7429	1 7860	9 55.6
29	10 25 4.12	4 39.34	10 55 4.8	24 27.7	0.130 5289	1 7652	9 56.3
30	10 29 43.46	4 38.81	10 30 37.1	24 46.6	0.132 2941	1 7444	9 57.0
Okt. 1	10 34 22.27	4 38.29	10 5 50.5	25 4.8	0.134 0385	1 7240	9 57.7
2	10 39 0.56	4 37.79	9 40 45.7	25 22.4	0.135 7625	1 7037	9 58.4
3	10 43 38.35	4 37.31	+ 9 15 23.3	25 39.3	0.137 4662	1 6836	9 59.1
4	10 48 15.66	4 36.84	8 49 44.0	25 55.5	0.139 1498	1 6638	9 59.7
5	10 52 52.50	4 36.40	8 23 48.5	26 11.0	0.140 8136	1 6441	10 0.4
6	10 57 28.90	4 35.97	7 57 37.5	26 25.8	0.142 4577	1 6247	10 1.1
7	11 2 4.87	4 35.57	7 31 11.7	26 40.0	0.144 0824	1 6056	10 1.7
8	11 6 40.44	4 35.20	7 4 31.7	26 53.5	0.145 6880	1 5867	10 2.4
9	11 11 15.64	4 34.86	+ 6 37 38.2	27 6.3	0.147 2747	1 5681	10 3.0
10	11 15 50.50	4 34.53	6 10 31.9	27 18.4	0.148 8428	1 5496	10 3.7
11	11 20 25.03	4 34.24	5 43 13.5	27 29.8	0.150 3924	1 5313	10 4.3
12	11 24 59.27	4 33.98	5 15 43.7	27 40.5	0.151 9237	1 5133	10 4.9
13	11 29 33.25	4 33.75	4 48 3.2	27 50.6	0.153 4370	1 4954	10 5.5
14	11 34 7.00		+ 4 20 12.6		0.154 9324		10 6.2

Tag	0h Welt-Zeit: Scheinbare Rektaszension (h m s)	Diff. (m s)	0h Welt-Zeit: Scheinbare Deklination (° ′ ″)	Diff. (′ ″)	0h Welt-Zeit: log Δ	Diff.	Obere Kulmination in Greenwich (h m)
1929 Okt. 14	11 34 7.00	4 33.57	+ 4 20 12.6	27 59.9	0.154 9324	1 4777	10 6.2
15	11 38 40.57	4 33.40	3 52 12.7	28 8.6	0.156 4101	1 4602	10 6.8
16	11 43 13.97	4 33.27	3 24 4.1	28 16.6	0.157 8703	1 4430	10 7.4
17	11 47 47.24	4 33.17	2 55 47.5	28 23.9	0.159 3133	1 4258	10 8.0
18	11 52 20.41	4 33.12	2 27 23.6	28 30.5	0.160 7391	1 4087	10 8.6
19	11 56 53.53	4 33.10	1 58 53.1	28 36.4	0.162 1478	1 3917	10 9.2
20	12 1 26.63	4 33.11	+ 1 30 16.7	28 41.6	0.163 5395	1 3748	10 9.8
21	12 5 59.74	4 33.16	1 1 35.1	28 46.1	0.164 9143	1 3580	10 10.4
22	12 10 32.90	4 33.25	0 32 49.0	28 49.9	0.166 2723	1 3411	10 11.1
23	12 15 6.15	4 33.37	+ 0 3 59.1	28 52.9	0.167 6134	1 3244	10 11.7
24	12 19 39.52	4 33.54	− 0 24 53.8	28 55.3	0.168 9378	1 3077	10 12.3
25	12 24 13.06	4 33.73	0 53 49.1	28 56.9	0.170 2455	1 2911	10 12.9
26	12 28 46.79	4 33.95	− 1 22 46.0	28 57.7	0.171 5366	1 2745	10 13.5
27	12 33 20.74	4 34.21	1 51 43.7	28 57.8	0.172 8111	1 2579	10 14.1
28	12 37 54.95	4 34.52	2 20 41.5	28 57.2	0.174 0690	1 2413	10 14.8
29	12 42 29.47	4 34.85	2 49 38.7	28 55.8	0.175 3103	1 2250	10 15.4
30	12 47 4.32	4 35.21	3 18 34.5	28 53.5	0.176 5353	1 2087	10 16.0
31	12 51 39.53	4 35.61	3 47 28.0	28 50.5	0.177 7440	1 1925	10 16.7
Nov. 1	12 56 15.14	4 36.05	− 4 16 18.5	28 46.8	0.178 9365	1 1766	10 17.3
2	13 0 51.19	4 36.52	4 45 5.3	28 42.3	0.180 1131	1 1607	10 18.0
3	13 5 27.71	4 37.02	5 13 47.6	28 37.0	0.181 2738	1 1450	10 18.7
4	13 10 4.73	4 37.56	5 42 24.6	28 30.9	0.182 4188	1 1295	10 19.4
5	13 14 42.29	4 38.14	6 10 55.5	28 24.1	0.183 5483	1 1142	10 20.0
6	13 19 20.43	4 38.74	6 39 19.6	28 16.4	0.184 6625	1 0991	10 20.7
7	13 23 59.17	4 39.39	− 7 7 36.0	28 8.0	0.185 7616	1 0841	10 21.5
8	13 28 38.56	4 40.07	7 35 44.0	27 58.9	0.186 8457	1 0692	10 22.2
9	13 33 18.63	4 40.79	8 3 42.9	27 49.0	0.187 9149	1 0545	10 22.9
10	13 37 59.42	4 41.53	8 31 31.9	27 38.3	0.188 9694	1 0401	10 23.6
11	13 42 40.95	4 42.31	8 59 10.2	27 26.7	0.190 0095	1 0259	10 24.4
12	13 47 23.26	4 43.13	9 26 36.9	27 14.4	0.191 0354	1 0117	10 25.2
13	13 52 6.39	4 43.97	− 9 53 51.3	27 1.4	0.192 0471	9977	10 26.0
14	13 56 50.36	4 44.85	10 20 52.7	26 47.6	0.193 0448	9838	10 26.8
15	14 1 35.21	4 45.76	10 47 40.3	26 33.0	0.194 0286	9701	10 27.6
16	14 6 20.97	4 46.70	11 14 13.3	26 17.5	0.194 9987	9565	10 28.4
17	14 11 7.67	4 47.68	11 40 30.8	26 1.3	0.195 9552	9430	10 29.2
18	14 15 55.35	4 48.67	12 6 32.1	25 44.4	0.196 8982	9295	10 30.1
19	14 20 44.02	4 49.70	−12 32 16.5	25 26.7	0.197 8277	9161	10 31.0
20	14 25 33.72	4 50.76	12 57 43.2	25 8.1	0.198 7438	9028	10 31.9
21	14 30 24.48	4 51.84	13 22 51.3	24 48.8	0.199 6466	8895	10 32.8
22	14 35 16.32	4 52.94	13 47 40.1	24 28.6	0.200 5361	8761	10 33.7
23	14 40 9.26	4 54.06	14 12 8.7	24 7.7	0.201 4122	8626	10 34.7
24	14 45 3.32		−14 36 16.4		0.202 2748		10 35.6

Tag	0h Welt-Zeit						Obere Kulmination in Greenwich
	Scheinbare Rektaszension		Scheinbare Deklination		log Δ		
1929	h m s	m s	° ′ ″	′ ″			h m
Nov. 24	14 45 3.32	4 55.19	−14 36 16.4	23 45.9	0.202 2748	8492	10 35.6
25	14 49 58.51	4 56.34	15 0 2.3	23 23.3	0.203 1240	8358	10 36.6
26	14 54 54.85	4 57.51	15 23 25.6	22 59.9	0.203 9598	8225	10 37.6
27	14 59 52.36	4 58.68	15 46 25.5	22 35.6	0.204 7823	8092	10 38.6
28	15 4 51.04	4 59.86	16 9 1.1	22 10.7	0.205 5915	7961	10 39.7
29	15 9 50.90	5 1.05	16 31 11.8	21 44.8	0.206 3876	7831	10 40.7
30	15 14 51.95	5 2.24	−16 52 56.6	21 18.2	0.207 1707	7700	10 41.8
Dez. 1	15 19 54.19	5 3.44	17 14 14.8	20 50.8	0.207 9407	7571	10 42.9
2	15 24 57.63	5 4.64	17 35 5.6	20 22.5	0.208 6978	7443	10 44.1
3	15 30 2.27	5 5.83	17 55 28.1	19 53.6	0.209 4421	7316	10 45.2
4	15 35 8.10	5 7.02	18 15 21.7	19 23.8	0.210 1737	7190	10 46.4
5	15 40 15.12	5 8.20	18 34 45.5	18 53.3	0.210 8927	7066	10 47.6
6	15 45 23.32	5 9.38	−18 53 38.8	18 22.1	0.211 5993	6943	10 48.8
7	15 50 32.70	5 10.54	19 12 0.9	17 50.1	0.212 2936	6821	10 50.0
8	15 55 43.24	5 11.70	19 29 51.0	17 17.5	0.212 9757	6702	10 51.2
9	16 0 54.94	5 12.83	19 47 8.5	16 44.1	0.213 6459	6583	10 52.5
10	16 6 7.77	5 13.96	20 3 52.6	16 10.0	0.214 3042	6465	10 53.8
11	16 11 21.73	5 15.06	20 20 2.6	15 35.2	0.214 9507	6348	10 55.1
12	16 16 36.79	5 16.13	−20 35 37.8	14 59.8	0.215 5855	6234	10 56.4
13	16 21 52.92	5 17.18	20 50 37.6	14 23.8	0.216 2089	6121	10 57.7
14	16 27 10.10	5 18.21	21 5 1.4	13 47.2	0.216 8210	6008	10 59.1
15	16 32 28.31	5 19.21	21 18 48.6	13 9.9	0.217 4218	5897	11 0.4
16	16 37 47.52	5 20.18	21 31 58.5	12 32.1	0.218 0115	5786	11 1.8
17	16 43 7.70	5 21.12	21 44 30.6	11 53.7	0.218 5901	5676	11 3.2
18	16 48 28.82	5 22.02	−21 56 24.3	11 14.8	0.219 1577	5565	11 4.7
19	16 53 50.84	5 22.89	22 7 39.1	10 35.4	0.219 7142	5456	11 6.1
20	16 59 13.73	5 23.71	22 18 14.5	9 55.5	0.220 2598	5346	11 7.5
21	17 4 37.44	5 24.49	22 28 10.0	9 15.1	0.220 7944	5235	11 9.0
22	17 10 1.93	5 25.22	22 37 25.1	8 34.2	0.221 3179	5124	11 10.5
23	17 15 27.15	5 25.90	22 45 59.3	7 52.9	0.221 8303	5014	11 12.0
24	17 20 53.05	5 26.52	−22 53 52.2	7 11.3	0.222 3317	4903	11 13.4
25	17 26 19.57	5 27.10	23 1 3.5	6 29.2	0.222 8220	4792	11 14.9
26	17 31 46.67	5 27.61	23 7 32.7	5 46.8	0.223 3012	4680	11 16.5
27	17 37 14.28	5 28.07	23 13 19.5	5 4.2	0.223 7692	4569	11 18.0
28	17 42 42.35	5 28.47	23 18 23.7	4 21.2	0.224 2261	4459	11 19.5
29	17 48 10.82	5 28.81	23 22 44.9	3 38.1	0.224 6720	4349	11 21.1
30	17 53 39.63	5 29.08	−23 26 23.0	2 54.8	0.225 1069	4239	11 22.6
31	17 59 8.71	5 29.29	23 29 17.8	2 11.2	0.225 5308	4130	11 24.1
32	18 4 38.00		−23 31 29.0		0.225 9438		11 25.7

Tag	0h Welt-Zeit Scheinbare Rektaszension		Scheinbare Deklination		log Δ		Obere Kulmination in Greenwich
1929	h m s	m s	° ′ ″	′ ″			h m
Jan. 0	5 41 52.05	1 31.02	+26 47 11.0	0 4.4	9.785 3606	2 3656	23 0.0
1	5 40 21.03	1 28.58	26 47 15.4	0 3.2	9.787 7262	2 4938	22 54.6
2	5 38 52.45	1 26.00	26 47 12.2	0 10.1	9.790 2200	2 6178	22 49.2
3	5 37 26.45	1 23.26	26 47 2.1	0 16.7	9.792 8378	2 7381	22 43.9
4	5 36 3.19	1 20.39	26 46 45.4	0 22.8	9.795 5759	2 8544	22 38.6
5	5 34 42.80	1 17.39	26 46 22.6	0 28.5	9.798 4303	2 9665	22 33.4
6	5 33 25.41	1 14.28	+26 45 54.1	0 33.6	9.801 3968	3 0741	22 28.2
7	5 32 11.13	1 11.08	26 45 20.5	0 38.2	9.804 4709	3 1772	22 23.1
8	5 31 0.05	1 7.77	26 44 42.3	0 42.4	9.807 6481	3 2757	22 18.1
9	5 29 52.28	1 4.38	26 43 59.9	0 46.1	9.810 9238	3 3695	22 13.1
10	5 28 47.90	1 0.91	26 43 13.8	0 49.3	9.814 2933	3 4587	22 8.1
11	5 27 46.99	0 57.38	26 42 24.5	0 52.0	9.817 7520	3 5431	22 3.2
12	5 26 49.61	0 53.80	+26 41 32.5	0 54.2	9.821 2951	3 6228	21 58.4
13	5 25 55.81	0 50.17	26 40 38.3	0 56.0	9.824 9179	3 6977	21 53.6
14	5 25 5.64	0 46.52	26 39 42.3	0 57.5	9.828 6156	3 7679	21 48.9
15	5 24 19.12	0 42.83	26 38 44.8	0 58.6	9.832 3835	3 8336	21 44.3
16	5 23 36.29	0 39.14	26 37 46.2	0 59.3	9.836 2171	3 8946	21 39.7
17	5 22 57.15	0 35.44	26 36 46.9	0 59.6	9.840 1117	3 9512	21 35.2
18	5 22 21.71	0 31.74	+26 35 47.3	0 59.6	9.844 0629	4 0033	21 30.7
19	5 21 49.97	0 28.06	26 34 47.7	0 59.4	9.848 0662	4 0511	21 26.3
20	5 21 21.91	0 24.40	26 33 48.3	0 58.9	9.852 1173	4 0950	21 22.0
21	5 20 57.51	0 20.76	26 32 49.4	0 58.1	9.856 2123	4 1348	21 17.7
22	5 20 36.75	0 17.15	26 31 51.3	0 57.2	9.860 3471	4 1709	21 13.5
23	5 20 19.60	0 13.58	26 30 54.1	0 56.1	9.864 5180	4 2036	21 9.3
24	5 20 6.02	0 10.05	+26 29 58.0	0 55.0	9.868 7216	4 2329	21 5.2
25	5 19 55.97	0 6.57	26 29 3.0	0 53.6	9.872 9545	4 2591	21 1.1
26	5 19 49.40	0 3.14	26 28 9.4	0 52.1	9.877 2136	4 2822	20 57.2
27	5 19 46.26	0 0.26	26 27 17.3	0 50.6	9.881 4958	4 3026	20 53.2
28	5 19 46.52	0 3.62	26 26 26.7	0 49.0	9.885 7984	4 3203	20 49.3
29	5 19 50.14	0 6.92	26 25 37.7	0 47.3	9.890 1187	4 3355	20 45.5
30	5 19 57.06	0 10.17	+26 24 50.4	0 45.6	9.894 4542	4 3481	20 41.7
31	5 20 7.23	0 13.39	26 24 4.8	0 43.8	9.898 8023	4 3583	20 38.0
Febr. 1	5 20 20.62	0 16.56	26 23 21.0	0 42.0	9.903 1606	4 3661	20 34.3
2	5 20 37.18	0 19.69	26 22 39.0	0 40.4	9.907 5267	4 3718	20 30.7
3	5 20 56.87	0 22.76	26 21 58.6	0 38.6	9.911 8985	4 3754	20 27.2
4	5 21 19.63	0 25.77	26 21 20.0	0 36.8	9.916 2739	4 3768	20 23.7
5	5 21 45.40	0 28.74	+26 20 43.2	0 35.2	9.920 6507	4 3762	20 20.2
6	5 22 14.14	0 31.66	26 20 8.0	0 33.7	9.925 0269	4 3736	20 16.8
7	5 22 45.80	0 34.54	26 19 34.3	0 32.2	9.929 4005	4 3693	20 13.4
8	5 23 20.34	0 37.36	26 19 2.1	0 30.7	9.933 7698	4 3631	20 10.1
9	5 23 57.70	0 40.13	26 18 31.4	0 29.3	9.938 1329	4 3553	20 6.8
10	5 24 37.83		+26 18 2.1		9.942 4882		20 3.6

Tag	0ʰ Welt-Zeit: Scheinbare Rektaszension		0ʰ Welt-Zeit: Scheinbare Deklination		0ʰ Welt-Zeit: log Δ		Obere Kulmination in Greenwich
1929	h m s	m s	° ′ ″	′ ″			h m
Febr. 10	5 24 37.83	0 42.84	+26 18 2.1	0 28.2	9.942 4882	4 3460	20 3.6
11	5 25 20.67	0 45.50	26 17 33.9	0 27.1	9.946 8342	4 3350	20 0.4
12	5 26 6.17	0 48.11	26 17 6.8	0 26.1	9.951 1692	4 3225	19 57.3
13	5 26 54.28	0 50.65	26 16 40.7	0 25.2	9.955 4917	4 3085	19 54.2
14	5 27 44.93	0 53.14	26 16 15.5	0 24.5	9.959 8002	4 2932	19 51.1
15	5 28 38.07	0 55.58	26 15 51.0	0 24.0	9.964 0934	4 2768	19 48.1
16	5 29 33.65	0 57.95	+26 15 27.0	0 23.7	9.968 3702	4 2591	19 45.1
17	5 30 31.60	1 0.27	26 15 3.3	0 23.4	9.972 6293	4 2404	19 42.2
18	5 31 31.87	1 2.53	26 14 39.9	0 23.4	9.976 8697	4 2209	19 39.3
19	5 32 34.40	1 4.74	26 14 16.5	0 23.5	9.981 0906	4 2006	19 36.4
20	5 33 39.14	1 6.88	26 13 53.0	0 23.8	9.985 2912	4 1795	19 33.6
21	5 34 46.02	1 8.97	26 13 29.2	0 24.4	9.989 4707	4 1577	19 30.8
22	5 35 54.99	1 11.00	+26 13 4.8	0 25.0	9.993 6284	4 1354	19 28.0
23	5 37 5.99	1 12.98	26 12 39.8	0 25.9	9.997 7638	4 1127	19 25.3
24	5 38 18.97	1 14.92	26 12 13.9	0 26.9	0.001 8765	4 0895	19 22.6
25	5 39 33.89	1 16.81	26 11 47.0	0 28.1	0.005 9660	4 0661	19 20.0
26	5 40 50.70	1 18.65	26 11 18.9	0 29.5	0.010 0321	4 0424	19 17.3
27	5 42 9.35	1 20.46	26 10 49.4	0 31.0	0.014 0745	4 0183	19 14.7
28	5 43 29.81	1 22.21	+26 10 18.4	0 32.8	0.018 0928	3 9938	19 12.1
März 1	5 44 52.02	1 23.94	26 9 45.6	0 34.6	0.022 0866	3 9692	19 9.6
2	5 46 15.96	1 25.63	26 9 11.0	0 36.6	0.026 0558	3 9443	19 7.1
3	5 47 41.59	1 27.27	26 8 34.4	0 38.8	0.030 0001	3 9191	19 4.6
4	5 49 8.86	1 28.88	26 7 55.6	0 41.0	0.033 9192	3 8936	19 2.1
5	5 50 37.74	1 30.45	26 7 14.6	0 43.6	0.037 8128	3 8678	18 59.7
6	5 52 8.19	1 32.00	+26 6 31.0	0 46.4	0.041 6806	3 8418	18 57.3
7	5 53 40.19	1 33.49	26 5 44.6	0 49.1	0.045 5224	3 8156	18 54.9
8	5 55 13.68	1 34.96	26 4 55.5	0 52.1	0.049 3380	3 7891	18 52.5
9	5 56 48.64	1 36.40	26 4 3.4	0 55.3	0.053 1271	3 7625	18 50.2
10	5 58 25.04	1 37.81	26 3 8.1	0 58.6	0.056 8896	3 7356	18 47.9
11	6 0 2.85	1 39.17	26 2 9.5	1 2.0	0.060 6252	3 7085	18 45.6
12	6 1 42.02	1 40.51	+26 1 7.5	1 5.7	0.064 3337	3 6813	18 43.3
13	6 3 22.53	1 41.80	26 0 1.8	1 9.4	0.068 0150	3 6537	18 41.1
14	6 5 4.33	1 43.07	25 58 52.4	1 13.3	0.071 6687	3 6258	18 38.8
15	6 6 47.40	1 44.30	25 57 39.1	1 17.3	0.075 2945	3 5980	18 36.6
16	6 8 31.70	1 45.49	25 56 21.8	1 21.5	0.078 8925	3 5701	18 34.4
17	6 10 17.19	1 46.66	25 55 0.3	1 25.9	0.082 4626	3 5421	18 32.3
18	6 12 3.85	1 47.78	+25 53 34.4	1 30.4	0.086 0047	3 5140	18 30.1
19	6 13 51.63	1 48.86	25 52 4.0	1 35.1	0.089 5187	3 4859	18 28.0
20	6 15 40.49	1 49.92	25 50 28.9	1 39.8	0.093 0046	3 4580	18 25.9
21	6 17 30.41	1 50.94	25 48 49.1	1 44.7	0.096 4626	3 4301	18 23.8
22	6 19 21.35	1 51.94	25 47 4.4	1 49.7	0.099 8927	3 4023	18 21.7
23	6 21 13.29		+25 45 14.7		0.103 2950		18 19.7

Tag	0ʰ Welt-Zeit Scheinbare Rektaszension	Diff.	Scheinbare Deklination	Diff.	log Δ	Diff.	Obere Kulmination in Greenwich
1929	h m s	m s	° ′ ″	′ ″			h m
März 23	6 21 13.29	1 52.90	+25 45 14.7	1 54.8	0.103 2950	3 3748	18 19.7
24	6 23 6.19	1 53.83	25 43 19.9	2 0.1	0.106 6698	3 3475	18 17.6
25	6 25 0.02	1 54.73	25 41 19.8	2 5.4	0.110 0173	3 3204	18 15.6
26	6 26 54.75	1 55.61	25 39 14.4	2 10.8	0.113 3377	3 2934	18 13.6
27	6 28 50.36	1 56.47	25 37 3.6	2 16.4	0.116 6311	3 2667	18 11.6
28	6 30 46.83	1 57.30	25 34 47.2	2 22.1	0.119 8978	3 2401	18 9.6
29	6 32 44.13	1 58.12	+25 32 25.1	2 27.8	0.123 1379	3 2137	18 7.6
30	6 34 42.25	1 58.91	25 29 57.3	2 33.6	0.126 3516	3 1874	18 5.6
31	6 36 41.16	1 59.69	25 27 23.7	2 39.6	0.129 5390	3 1614	18 3.7
April 1	6 38 40.85	2 0.44	25 24 44.1	2 45.7	0.132 7004	3 1354	18 1.8
2	6 40 41.29	2 1.17	25 21 58.4	2 51.7	0.135 8358	3 1095	17 59.8
3	6 42 42.46	2 1.88	25 19 6.7	2 57.9	0.138 9453	3 0837	17 57.9
4	6 44 44.34	2 2.57	+25 16 8.8	3 4.3	0.142 0290	3 0580	17 56.0
5	6 46 46.91	2 3.25	25 13 4.5	3 10.6	0.145 0870	3 0326	17 54.1
6	6 48 50.16	2 3.91	25 9 53.9	3 17.1	0.148 1196	3 0071	17 52.3
7	6 50 54.07	2 4.55	25 6 36.8	3 23.6	0.151 1267	2 9817	17 50.4
8	6 52 58.62	2 5.17	25 3 13.2	3 30.1	0.154 1084	2 9563	17 48.5
9	6 55 3.79	2 5.77	24 59 43.1	3 36.9	0.157 0647	2 9311	17 46.7
10	6 57 9.56	2 6.36	+24 56 6.2	3 43.6	0.159 9958	2 9057	17 44.9
11	6 59 15.92	2 6.93	24 52 22.6	3 50.4	0.162 9015	2 8803	17 43.0
12	7 1 22.85	2 7.46	24 48 32.2	3 57.3	0.165 7818	2 8550	17 41.2
13	7 3 30.31	2 7.99	24 44 34.9	4 4.2	0.168 6368	2 8299	17 39.4
14	7 5 38.30	2 8.49	24 40 30.7	4 11.3	0.171 4667	2 8049	17 37.6
15	7 7 46.79	2 8.97	24 36 19.4	4 18.2	0.174 2716	2 7801	17 35.8
16	7 9 55.76	2 9.43	+24 32 1.2	4 25.2	0.177 0517	2 7552	17 34.0
17	7 12 5.19	2 9.86	24 27 36.0	4 32.4	0.179 8069	2 7305	17 32.2
18	7 14 15.05	2 10.28	24 23 3.6	4 39.6	0.182 5374	2 7062	17 30.5
19	7 16 25.33	2 10.68	24 18 24.0	4 46.8	0.185 2436	2 6820	17 28.7
20	7 18 36.01	2 11.07	24 13 37.2	4 53.9	0.187 9256	2 6580	17 27.0
21	7 20 47.08	2 11.44	24 8 43.3	5 1.2	0.190 5836	2 6343	17 25.2
22	7 22 58.52	2 11.80	+24 3 42.1	5 8.5	0.193 2179	2 6109	17 23.5
23	7 25 10.32	2 12.13	23 58 33.6	5 15.7	0.195 8288	2 5877	17 21.7
24	7 27 22.45	2 12.45	23 53 17.9	5 23.0	0.198 4165	2 5647	17 20.0
25	7 29 34.90	2 12.76	23 47 54.9	5 30.4	0.200 9812	2 5420	17 18.3
26	7 31 47.66	2 13.06	23 42 24.5	5 37.8	0.203 5232	2 5194	17 16.5
27	7 34 0.72	2 13.36	23 36 46.7	5 45.1	0.206 0426	2 4971	17 14.8
28	7 36 14.08	2 13.63	+23 31 1.6	5 52.6	0.208 5397	2 4750	17 13.1
29	7 38 27.71	2 13.90	23 25 9.0	5 59.9	0.211 0147	2 4531	17 11.4
30	7 40 41.61	2 14.16	23 19 9.1	6 7.3	0.213 4678	2 4312	17 9.7
Mai 1	7 42 55.77	2 14.41	23 13 1.8	6 14.8	0.215 8990	2 4095	17 8.0
2	7 45 10.18	2 14.65	23 6 47.0	6 22.3	0.218 3085	2 3880	17 6.3
3	7 47 24.83		+23 0 24.7		0.220 6965		17 4.6

Tag	0h Welt-Zeit Scheinbare Rektaszension		Scheinbare Deklination		log Δ		Obere Kulmination in Greenwich
1929	h m s	m s	° ′ ″	′ ″			h m
Mai 3	7 47 24.83	2 14.88	+23 0 24.7	6 29.7	0.220 6965	2 3666	17 4.0
4	7 49 39.71	2 15.09	22 53 55.0	6 37.1	0.223 0631	2 3453	17 2.9
5	7 51 54.80	2 15.30	22 47 17.9	6 44.7	0.225 4084	2 3242	17 1.2
6	7 54 10.10	2 15.51	22 40 33.2	6 52.1	0.227 7326	2 3031	16 59.5
7	7 56 25.61	2 15.72	22 33 41.1	6 59.6	0.230 0357	2 2821	16 57.9
8	7 58 41.33	2 15.90	22 26 41.5	7 7.2	0.232 3178	2 2610	16 56.2
9	8 0 57.23	2 16.08	+22 19 34.3	7 14.7	0.234 5788	2 2400	16 54.5
10	8 3 13.31	2 16.24	22 12 19.6	7 22.1	0.236 8188	2 2190	16 52.8
11	8 5 29.55	2 16.39	22 4 57.5	7 29.6	0.239 0378	2 1983	16 51.2
12	8 7 45.94	2 16.53	21 57 27.9	7 37.1	0.241 2361	2 1775	16 49.5
13	8 10 2.47	2 16.66	21 49 50.8	7 44.5	0.243 4136	2 1568	16 47.8
14	8 12 19.13	2 16.77	21 42 6.3	7 51.8	0.245 5704	2 1362	16 46.2
15	8 14 35.90	2 16.87	+21 34 14.5	7 59.2	0.247 7066	2 1159	16 44.5
16	8 16 52.77	2 16.96	21 26 15.3	8 6.6	0.249 8225	2 0957	16 42.9
17	8 19 9.73	2 17.05	21 18 8.7	8 13.9	0.251 9182	2 0758	16 41.2
18	8 21 26.78	2 17.13	21 9 54.8	8 21.2	0.253 9940	2 0560	16 39.5
19	8 23 43.91	2 17.20	21 1 33.6	8 28.4	0.256 0500	2 0364	16 37.9
20	8 26 1.11	2 17.25	20 53 5.2	8 35.7	0.258 0864	2 0170	16 36.2
21	8 28 18.36	2 17.31	+20 44 29.5	8 42.9	0.260 1034	1 9978	16 34.6
22	8 30 35.67	2 17.35	20 35 46.6	8 50.1	0.262 1012	1 9788	16 32.9
23	8 32 53.02	2 17.39	20 26 56.5	8 57.1	0.264 0800	1 9599	16 31.3
24	8 35 10.41	2 17.43	20 17 59.4	9 4.3	0.266 0399	1 9413	16 29.6
25	8 37 27.84	2 17.47	20 8 55.1	9 11.4	0.267 9812	1 9230	16 28.0
26	8 39 45.31	2 17.49	19 59 43.7	9 18.4	0.269 9042	1 9047	16 26.3
27	8 42 2.80	2 17.52	+19 50 25.3	9 25.4	0.271 8089	1 8865	16 24.7
28	8 44 20.32	2 17.54	19 40 59.9	9 32.4	0.273 6954	1 8685	16 23.0
29	8 46 37.86	2 17.56	19 31 27.5	9 39.4	0.275 5639	1 8507	16 21.4
30	8 48 55.42	2 17.58	19 21 48.1	9 46.2	0.277 4146	1 8331	16 19.7
31	8 51 13.00	2 17.60	19 12 1.9	9 53.0	0.279 2477	1 8155	16 18.1
Juni 1	8 53 30.60	2 17.60	19 2 8.9	9 59.9	0.281 0632	1 7979	16 16.4
2	8 55 48.20	2 17.61	+18 52 9.0	10 6.8	0.282 8611	1 7805	16 14.8
3	8 58 5.81	2 17.62	18 42 2.2	10 13.5	0.284 6416	1 7631	16 13.1
4	9 0 23.43	2 17.63	18 31 48.7	10 20.3	0.286 4047	1 7458	16 11.5
5	9 2 41.06	2 17.64	18 21 28.4	10 27.0	0.288 1505	1 7285	16 9.9
6	9 4 58.70	2 17.63	18 11 1.4	10 33.7	0.289 8790	1 7111	16 8.2
7	9 7 16.33	2 17.63	18 0 27.7	10 40.3	0.291 5901	1 6939	16 6.6
8	9 9 33.96	2 17.63	+17 49 47.4	10 46.8	0.293 2840	1 6767	16 4.9
9	9 11 51.59	2 17.61	17 39 0.6	10 53.4	0.294 9607	1 6595	16 3.3
10	9 14 9.20	2 17.59	17 28 7.2	10 59.8	0.296 6202	1 6424	16 1.6
11	9 16 26.79	2 17.57	17 17 7.4	11 6.1	0.298 2626	1 6254	16 0.0
12	9 18 44.36	2 17.53	17 6 1.3	11 12.5	0.299 8880	1 6085	15 58.3
13	9 21 1.89		+16 54 48.8		0.301 4965		15 56.7

Mars 1929

Tag	0h Welt-Zeit Scheinbare Rektaszension		Scheinbare Deklination		log Δ		Obere Kulmination in Greenwich
1929	h m s	m s	° ′ ″	′ ″			h m
Juni 13	9 21 1.89	2 17.50	+16 54 48.8	11 18.7	0.301 4965	1 5917	15 56.7
14	9 23 19.39	2 17.47	16 43 30.1	11 24.9	0.303 0882	1 5751	15 55.0
15	9 25 36.86	2 17.43	16 32 5.2	11 31.1	0.304 6633	1 5587	15 53.4
16	9 27 54.29	2 17.39	16 20 34.1	11 37.1	0.306 2220	1 5423	15 51.7
17	9 30 11.68	2 17.35	16 8 57.0	11 43.1	0.307 7643	1 5262	15 50.1
18	9 32 29.03	2 17.30	15 57 13.9	11 49.0	0.309 2905	1 5102	15 48.4
19	9 34 46.33	2 17.26	+15 45 24.9	11 54.9	0.310 8007	1 4944	15 46.8
20	9 37 3.59	2 17.22	15 33 30.0	12 0.6	0.312 2951	1 4787	15 45.1
21	9 39 20.81	2 17.18	15 21 29.4	12 6.4	0.313 7738	1 4632	15 43.5
22	9 41 37.99	2 17.13	15 9 23.0	12 12.2	0.315 2370	1 4478	15 41.8
23	9 43 55.12	2 17.09	14 57 10.8	12 17.8	0.316 6848	1 4326	15 40.2
24	9 46 12.21	2 17.05	14 44 53.0	12 23.3	0.318 1174	1 4175	15 38.5
25	9 48 29.26	2 17.01	+14 32 29.7	12 28.9	0.319 5349	1 4025	15 36.8
26	9 50 46.27	2 16.97	14 20 0.8	12 34.4	0.320 9374	1 3876	15 35.2
27	9 53 3.24	2 16.94	14 7 26.4	12 39.8	0.322 3250	1 3728	15 33.5
28	9 55 20.18	2 16.91	13 54 46.6	12 45.2	0.323 6978	1 3581	15 31.9
29	9 57 37.09	2 16.89	13 42 1.4	12 50.5	0.325 0559	1 3435	15 30.2
30	9 59 53.98	2 16.87	13 29 10.9	12 55.8	0.326 3994	1 3290	15 28.5
Juli 1	10 2 10.85	2 16.83	+13 16 15.1	13 0.9	0.327 7284	1 3144	15 26.9
2	10 4 27.68	2 16.81	13 3 14.2	13 6.1	0.329 0428	1 2999	15 25.2
3	10 6 44.49	2 16.80	12 50 8.1	13 11.2	0.330 3427	1 2854	15 23.6
4	10 9 1.29	2 16.78	12 36 56.9	13 16.2	0.331 6281	1 2709	15 21.9
5	10 11 18.07	2 16.76	12 23 40.7	13 21.2	0.332 8990	1 2565	15 20.2
6	10 13 34.83	2 16.75	12 10 19.5	13 26.0	0.334 1555	1 2420	15 18.6
7	10 15 51.58	2 16.74	+11 56 53.5	13 30.9	0.335 3975	1 2275	15 16.9
8	10 18 8.32	2 16.72	11 43 22.6	13 35.7	0.336 6250	1 2131	15 15.3
9	10 20 25.04	2 16.71	11 29 46.9	13 40.3	0.337 8381	1 1988	15 13.6
10	10 22 41.75	2 16.70	11 16 6.6	13 44.9	0.339 0369	1 1845	15 11.9
11	10 24 58.45	2 16.68	11 2 21.7	13 49.4	0.340 2214	1 1703	15 10.3
12	10 27 15.13	2 16.66	10 48 32.3	13 53.8	0.341 3917	1 1561	15 8.6
13	10 29 31.79	2 16.65	+10 34 38.5	13 58.1	0.342 5478	1 1422	15 6.9
14	10 31 48.44	2 16.65	10 20 40.4	14 2.3	0.343 6900	1 1284	15 5.3
15	10 34 5.09	2 16.64	10 6 38.1	14 6.5	0.344 8184	1 1146	15 3.6
16	10 36 21.73	2 16.63	9 52 31.6	14 10.6	0.345 9330	1 1010	15 1.9
17	10 38 38.36	2 16.63	9 38 21.0	14 14.6	0.347 0340	1 0876	15 0.3
18	10 40 54.99	2 16.63	9 24 6.4	14 18.6	0.348 1216	1 0742	14 58.6
19	10 43 11.62	2 16.63	+ 9 9 47.8	14 22.4	0.349 1958	1 0611	14 57.0
20	10 45 28.25	2 16.64	8 55 25.4	14 26.1	0.350 2569	1 0480	14 55.3
21	10 47 44.89	2 16.66	8 40 59.3	14 29.9	0.351 3049	1 0350	14 53.6
22	10 50 1.55	2 16.68	8 26 29.4	14 33.6	0.352 3399	1 0220	14 52.0
23	10 52 18.23	2 16.70	8 11 55.8	14 37.3	0.353 3619	1 0093	14 50.3
24	10 54 34.93		+ 7 57 18.5		0.354 3712		14 48.6

Tag	0ʰ Welt-Zeit: Scheinbare Rektaszension		Scheinbare Deklination		log Δ		Obere Kulmination in Greenwich
1929	h m s	m s	° ′ ″	′ ″			h m
Juli 24	10 54 34.93	2 16.73	+7 57 18.5	14 40.7	0.354 3712	9966	14 48.6
25	10 56 51.66	2 16.77	7 42 37.8	14 44.1	0.355 3678	9839	14 47.0
26	10 59 8.43	2 16.80	7 27 53.7	14 47.5	0.356 3517	9714	14 45.3
27	11 1 25.23	2 16.85	7 13 6.2	14 50.8	0.357 3231	9590	14 43.7
28	11 3 42.08	2 16.91	6 58 15.4	14 54.1	0.358 2821	9466	14 42.0
29	11 5 58.99	2 16.96	6 43 21.3	14 57.4	0.359 2287	9342	14 40.3
30	11 8 15.95	2 17.02	+6 28 23.9	15 0.4	0.360 1629	9217	14 38.7
31	11 10 32.97	2 17.09	6 13 23.5	15 3.4	0.361 0846	9094	14 37.0
Aug. 1	11 12 50.06	2 17.16	5 58 20.1	15 6.5	0.361 9940	8970	14 35.4
2	11 15 7.22	2 17.24	5 43 13.6	15 9.4	0.362 8910	8846	14 33.7
3	11 17 24.46	2 17.32	5 28 4.2	15 12.2	0.363 7756	8722	14 32.1
4	11 19 41.78	2 17.41	5 12 52.0	15 14.9	0.364 6478	8598	14 30.4
5	11 21 59.19	2 17.50	+4 57 37.1	15 17.5	0.365 5076	8473	14 28.8
6	11 24 16.69	2 17.60	4 42 19.6	15 20.1	0.366 3549	8350	14 27.1
7	11 26 34.29	2 17.69	4 26 59.5	15 22.6	0.367 1899	8227	14 25.5
8	11 28 51.98	2 17.79	4 11 36.9	15 24.9	0.368 0126	8104	14 23.8
9	11 31 9.77	2 17.89	3 56 12.0	15 27.2	0.368 8230	7981	14 22.2
10	11 33 27.66	2 18.00	3 40 44.8	15 29.4	0.369 6211	7860	14 20.5
11	11 35 45.66	2 18.10	+3 25 15.4	15 31.4	0.370 4071	7740	14 18.9
12	11 38 3.76	2 18.21	3 9 44.0	15 33.4	0.371 1811	7621	14 17.3
13	11 40 21.97	2 18.34	2 54 10.6	15 35.2	0.371 9432	7503	14 15.6
14	11 42 40.31	2 18.46	2 38 35.4	15 37.0	0.372 6935	7386	14 14.0
15	11 44 58.77	2 18.59	2 22 58.4	15 38.8	0.373 4321	7270	14 12.4
16	11 47 17.36	2 18.73	2 7 19.6	15 40.4	0.374 1591	7155	14 10.7
17	11 49 36.09	2 18.87	+1 51 39.2	15 42.0	0.374 8746	7041	14 9.1
18	11 51 54.96	2 19.02	1 35 57.2	15 43.3	0.375 5787	6928	14 7.5
19	11 54 13.98	2 19.17	1 20 13.9	15 44.7	0.376 2715	6816	14 5.9
20	11 56 33.15	2 19.33	1 4 29.2	15 46.0	0.376 9531	6705	14 4.2
21	11 58 52.48	2 19.50	0 48 43.2	15 47.2	0.377 6236	6594	14 2.6
22	12 1 11.98	2 19.68	0 32 56.0	15 48.3	0.378 2830	6484	14 1.0
23	12 3 31.66	2 19.87	+0 17 7.7	15 49.3	0.378 9314	6376	13 59.4
24	12 5 51.53	2 20.06	+0 1 18.4	15 50.2	0.379 5690	6268	13 57.8
25	12 8 11.59	2 20.25	−0 14 31.8	15 51.2	0.380 1958	6160	13 56.2
26	12 10 31.84	2 20.46	0 30 23.0	15 52.0	0.380 8118	6052	13 54.6
27	12 12 52.30	2 20.67	0 46 15.0	15 52.6	0.381 4170	5944	13 53.0
28	12 15 12.97	2 20.90	1 2 7.6	15 53.3	0.382 0114	5836	13 51.4
29	12 17 33.87	2 21.13	−1 18 0.9	15 53.8	0.382 5950	5728	13 49.8
30	12 19 55.00	2 21.36	1 33 54.7	15 54.2	0.383 1678	5620	13 48.2
31	12 22 16.36	2 21.60	1 49 48.9	15 54.6	0.383 7298	5511	13 46.6
Sept. 1	12 24 37.96	2 21.85	2 5 43.5	15 54.8	0.384 2809	5402	13 45.0
2	12 26 59.81	2 22.10	2 21 38.3	15 55.0	0.384 8211	5294	13 43.5
3	12 29 21.91		−2 37 33.3		0.385 3505		13 41.9

Tag	0ʰ Welt-Zeit						Obere Kulmination in Greenwich
	Scheinbare Rektaszension		Scheinbare Deklination		log Δ		
1929	h m s	m s	° ′ ″	′ ″			h m
Sept. 3	12 29 21.91	2 22.36	− 2 37 33.3	15 55.0	0.385 3505	5187	13 41.9
4	12 31 44.27	2 22.62	2 53 28.3	15 54.8	0.385 8692	5079	13 40.3
5	12 34 6.89	2 22.88	3 9 23.1	15 54.7	0.386 3771	4970	13 38.8
6	12 36 29.77	2 23.16	3 25 17.8	15 54.3	0.386 8741	4863	13 37.2
7	12 38 52.93	2 23.44	3 41 12.1	15 53.8	0.387 3604	4756	13 35.7
8	12 41 16.37	2 23.73	3 57 5.9	15 53.3	0.387 8360	4650	13 34.1
9	12 43 40.10	2 24.01	− 4 12 59.2	15 52.7	0.388 3010	4546	13 32.6
10	12 46 4.11	2 24.30	4 28 51.9	15 51.9	0.388 7556	4442	13 31.0
11	12 48 28.41	2 24.60	4 44 43.8	15 50.9	0.389 1998	4338	13 29.5
12	12 50 53.01	2 24.90	5 0 34.7	15 49.9	0.389 6336	4236	13 28.0
13	12 53 17.91	2 25.22	5 16 24.6	15 48.8	0.390 0572	4135	13 26.5
14	12 55 43.13	2 25.53	5 32 13.4	15 47.6	0.390 4707	4033	13 24.9
15	12 58 8.66	2 25.86	− 5 48 1.0	15 46.2	0.390 8740	3933	13 23.4
16	13 0 34.52	2 26.20	6 3 47.2	15 44.7	0.391 2673	3835	13 21.9
17	13 3 0.72	2 26.54	6 19 31.9	15 43.2	0.391 6508	3737	13 20.4
18	13 5 27.26	2 26.89	6 35 15.1	15 41.6	0.392 0245	3641	13 18.9
19	13 7 54.15	2 27.24	6 50 56.7	15 39.8	0.392 3886	3544	13 17.4
20	13 10 21.39	2 27.61	7 6 36.5	15 37.8	0.392 7430	3448	13 15.9
21	13 12 49.00	2 27.98	− 7 22 14.3	15 35.9	0.393 0878	3354	13 14.5
22	13 15 16.98	2 28.36	7 37 50.2	15 33.8	0.393 4232	3258	13 13.0
23	13 17 45.34	2 28.75	7 53 24.0	15 31.6	0.393 7490	3163	13 11.5
24	13 20 14.09	2 29.15	8 8 55.6	15 29.3	0.394 0653	3069	13 10.1
25	13 22 43.24	2 29.56	8 24 24.9	15 26.8	0.394 3722	2975	13 8.6
26	13 25 12.80	2 29.98	8 39 51.7	15 24.3	0.394 6697	2881	13 7.2
27	13 27 42.78	2 30.39	− 8 55 16.0	15 21.7	0.394 9578	2786	13 5.7
28	13 30 13.17	2 30.82	9 10 37.7	15 18.9	0.395 2364	2692	13 4.3
29	13 32 43.99	2 31.25	9 25 56.6	15 16.0	0.395 5056	2596	13 2.9
30	13 35 15.24	2 31.70	9 41 12.6	15 12.9	0.395 7652	2500	13 1.5
Okt. 1	13 37 46.94	2 32.14	9 56 25.5	15 9.7	0.396 0152	2405	13 0.1
2	13 40 19.08	2 32.59	10 11 35.2	15 6.5	0.396 2557	2310	12 58.7
3	13 42 51.67	2 33.04	−10 26 41.7	15 3.0	0.396 4867	2214	12 57.3
4	13 45 24.71	2 33.50	10 41 44.7	14 59.3	0.396 7081	2120	12 55.9
5	13 47 58.21	2 33.96	10 56 44.0	14 55.5	0.396 9201	2027	12 54.5
6	13 50 32.17	2 34.43	11 11 39.5	14 51.7	0.397 1228	1933	12 53.1
7	13 53 6.60	2 34.90	11 26 31.2	14 47.7	0.397 3161	1841	12 51.8
8	13 55 41.50	2 35.38	11 41 18.9	14 43.4	0.397 5002	1749	12 50.4
9	13 58 16.88	2 35.87	−11 56 2.3	14 39.1	0.397 6751	1657	12 49.1
10	14 0 52.75	2 36.35	12 10 41.4	14 34.7	0.397 8408	1568	12 47.7
11	14 3 29.10	2 36.84	12 25 16.1	14 30.0	0.397 9976	1478	12 46.4
12	14 6 5.94	2 37.34	12 39 46.1	14 25.2	0.398 1454	1389	12 45.1
13	14 8 43.28	2 37.85	12 54 11.3	14 20.4	0.398 2843	1301	12 43.8
14	14 11 21.13		−13 8 31.7		0.398 4144		12 42.5

Tag	0h Welt-Zeit Scheinbare Rektaszension		Scheinbare Deklination		log Δ		Obere Kulmination in Greenwich
1929	h m s	m s	° ′ ″	′ ″			h m
Okt. 14	14 11 21.13	2 38.36	−13 8 31.7	14 15.3	0.398 4144	1214	12 42.5
15	14 13 59.49	2 38.88	13 22 47.0	14 10.1	0.398 5358	1128	12 41.2
16	14 16 38.37	2 39.40	13 36 57.1	14 4.8	0.398 6486	1044	12 39.9
17	14 19 17.77	2 39.92	13 51 1.9	13 59.3	0.398 7530	960	12 38.6
18	14 21 57.69	2 40.46	14 5 1.2	13 53.7	0.398 8490	877	12 37.3
19	14 24 38.15	2 41.00	14 18 54.9	13 47.9	0.398 9367	794	12 36.1
20	14 27 19.15	2 41.55	−14 32 42.8	13 42.1	0.399 0161	711	12 34.8
21	14 30 0.70	2 42.11	14 46 24.9	13 36.1	0.399 0872	629	12 33.6
22	14 32 42.81	2 42.67	15 0 1.0	13 29.9	0.399 1501	549	12 32.3
23	14 35 25.48	2 43.23	15 13 30.9	13 23.6	0.399 2050	467	12 31.1
24	14 38 8.71	2 43.80	15 26 54.5	13 17.2	0.399 2517	385	12 29.9
25	14 40 52.51	2 44.38	15 40 11.7	13 10.6	0.399 2902	302	12 28.7
26	14 43 36.89	2 44.96	−15 53 22.3	13 3.7	0.399 3204	221	12 27.5
27	14 46 21.85	2 45.54	16 6 26.0	12 56.8	0.399 3425	139	12 26.3
28	14 49 7.39	2 46.14	16 19 22.8	12 49.8	0.399 3564	57	12 25.1
29	14 51 53.53	2 46.73	16 32 12.6	12 42.6	0.399 3621	$\overline{26}$	12 24.0
30	14 54 40.26	2 47.32	16 44 55.2	12 35.2	0.399 3595	108	12 22.8
31	14 57 27.58	2 47.91	16 57 30.4	12 27.6	0.399 3487	189	12 21.7
Nov. 1	15 0 15.49	2 48.50	−17 9 58.0	12 19.9	0.399 3298	272	12 20.5
2	15 3 3.99	2 49.10	17 22 17.9	12 11.9	0.399 3026	353	12 19.4
3	15 5 53.09	2 49.69	17 34 29.8	12 3.8	0.399 2673	433	12 18.3
4	15 8 42.78	2 50.29	17 46 33.6	11 55.6	0.399 2240	513	12 17.2
5	15 11 33.07	2 50.88	17 58 29.2	11 47.1	0.399 1727	593	12 16.1
6	15 14 23.95	2 51.48	18 10 16.3	11 38.6	0.399 1134	672	12 15.0
7	15 17 15.43	2 52.08	−18 21 54.9	11 29.8	0.399 0462	750	12 13.9
8	15 20 7.51	2 52.67	18 33 24.7	11 20.8	0.398 9712	827	12 12.8
9	15 23 0.18	2 53.27	18 44 45.5	11 11.8	0.398 8885	902	12 11.8
10	15 25 53.45	2 53.87	18 55 57.3	11 2.6	0.398 7983	978	12 10.7
11	15 28 47.32	2 54.47	19 6 59.9	10 53.1	0.398 7005	1052	12 9.7
12	15 31 41.79	2 55.07	19 17 53.0	10 43.5	0.398 5953	1124	12 8.6
13	15 34 36.86	2 55.66	−19 28 36.5	10 33.8	0.398 4829	1196	12 7.6
14	15 37 32.52	2 56.25	19 39 10.3	10 23.9	0.398 3633	1267	12 6.6
15	15 40 28.77	2 56.85	19 49 34.2	10 13.9	0.398 2366	1338	12 5.6
16	15 43 25.62	2 57.44	19 59 48.1	10 3.7	0.398 1028	1407	12 4.6
17	15 46 23.06	2 58.05	20 9 51.8	9 53.3	0.397 9621	1475	12 3.6
18	15 49 21.11	2 58.65	20 19 45.1	9 42.8	0.397 8146	1544	12 2.7
19	15 52 19.76	2 59.25	−20 29 27.9	9 32.1	0.397 6602	1612	12 1.7
20	15 55 19.01	2 59.84	20 39 0.0	9 21.4	0.397 4990	1680	12 0.8
21	15 58 18.85	3 0.44	20 48 21.4	9 10.4	0.397 3310	1747	11 59.8
22	16 1 19.29	3 1.03	20 57 31.8	8 59.2	0.397 1563	1815	11 58.9
23	16 4 20.32	3 1.63	21 6 31.0	8 48.0	0.396 9748	1883	11 58.0
24	16 7 21.95		−21 15 19.0		0.396 7865		11 57.1

Tag	0h Welt-Zeit: Scheinbare Rektaszension		0h Welt-Zeit: Scheinbare Deklination		0h Welt-Zeit: log Δ		Obere Kulmination in Greenwich
1929	h m s	m s	° ′ ″	′ ″			h m
Nov. 24	16 7 21.95	3 2.21	−21 15 19.0	8 36.6	0.396 7865	1951	11 57.1
25	16 10 24.16	3 2.79	21 23 55.6	8 24.9	0.396 5914	2018	11 56.2
26	16 13 26.95	3 3.36	21 32 20.5	8 13.1	0.396 3896	2085	11 55.3
27	16 16 30.31	3 3.94	21 40 33.6	8 1.2	0.396 1811	2153	11 54.4
28	16 19 34.25	3 4.50	21 48 34.8	7 49.2	0.395 9658	2221	11 53.5
29	16 22 38.75	3 5.06	21 56 24.0	7 37.0	0.395 7437	2288	11 52.7
30	16 25 43.81	3 5.61	−22 4 1.0	7 24.6	0.395 5149	2355	11 51.8
Dez. 1	16 28 49.42	3 6.15	22 11 25.6	7 12.0	0.395 2794	2421	11 51.0
2	16 31 55.57	3 6.69	22 18 37.6	6 59.3	0.395 0373	2486	11 50.1
3	16 35 2.26	3 7.21	22 25 36.9	6 46.5	0.394 7887	2551	11 49.3
4	16 38 9.47	3 7.72	22 32 23.4	6 33.5	0.394 5336	2616	11 48.5
5	16 41 17.19	3 8.23	22 38 56.9	6 20.3	0.394 2720	2679	11 47.7
6	16 44 25.42	3 8.72	−22 45 17.2	6 7.1	0.394 0041	2741	11 46.9
7	16 47 34.14	3 9.21	22 51 24.3	5 53.6	0.393 7300	2803	11 46.1
8	16 50 43.35	3 9.68	22 57 17.9	5 40.1	0.393 4497	2864	11 45.3
9	16 53 53.03	3 10.15	23 2 58.0	5 26.5	0.393 1633	2924	11 44.5
10	16 57 3.18	3 10.61	23 8 24.5	5 12.7	0.392 8709	2982	11 43.7
11	17 0 13.79	3 11.06	23 13 37.2	4 58.8	0.392 5727	3040	11 43.0
12	17 3 24.85	3 11.50	−23 18 36.0	4 44.7	0.392 2687	3095	11 42.2
13	17 6 36.35	3 11.93	23 23 20.7	4 30.5	0.391 9592	3150	11 41.5
14	17 9 48.28	3 12.34	23 27 51.2	4 16.4	0.391 6442	3204	11 40.8
15	17 13 0.62	3 12.75	23 32 7.6	4 2.0	0.391 3238	3256	11 40.0
16	17 16 13.37	3 13.15	23 36 9.6	3 47.5	0.390 9982	3309	11 39.3
17	17 19 26.52	3 13.54	23 39 57.1	3 32.9	0.390 6673	3362	11 38.6
18	17 22 40.06	3 13.93	−23 43 30.0	3 18.3	0.390 3311	3413	11 37.9
19	17 25 53.99	3 14.31	23 46 48.3	3 3.6	0.389 9898	3465	11 37.1
20	17 29 8.30	3 14.66	23 49 51.9	2 48.8	0.389 6433	3516	11 36.4
21	17 32 22.96	3 15.01	23 52 40.7	2 33.8	0.389 2917	3568	11 35.7
22	17 35 37.97	3 15.34	23 55 14.5	2 18.7	0.388 9349	3619	11 35.1
23	17 38 53.31	3 15.66	23 57 33.2	2 3.6	0.388 5730	3669	11 34.4
24	17 42 8.97	3 15.97	−23 59 36.8	1 48.5	0.388 2061	3720	11 33.7
25	17 45 24.94	3 16.26	24 1 25.3	1 33.2	0.387 8341	3771	11 33.0
26	17 48 41.20	3 16.54	24 2 58.5	1 17.8	0.387 4570	3821	11 32.4
27	17 51 57.74	3 16.80	24 4 16.3	1 2.4	0.387 0749	3872	11 31.7
28	17 55 14.54	3 17.05	24 5 18.7	0 46.9	0.386 6877	3923	11 31.0
29	17 58 31.59	3 17.29	24 6 5.6	0 31.3	0.386 2954	3972	11 30.4
30	18 1 48.88	3 17.50	−24 6 36.9	0 15.8	0.385 8982	4021	11 29.7
31	18 5 6.38	3 17.69	24 6 52.7	0 0.1	0.385 4961	4070	11 29.1
32	18 8 24.07		−24 6 52.8		0.385 0891		11 28.4

Tag	0h Welt-Zeit Scheinbare Rektaszension		Scheinbare Deklination		log Δ		Obere Kulmination in Greenwich
1929	h m s	s	° ′ ″	′ ″			h m
Jan. 0	1 55 11.99	4.00	+10 29 38.8	0 41.9	0.656 2844	1 4391	19 15.4
1	1 55 15.99	4.79	10 30 20.7	0 46.3	0.657 7235	1 4436	19 11.6
2	1 55 20.78	5.58	10 31 7.0	0 50.5	0.659 1671	1 4475	19 7.7
3	1 55 26.36	6.36	10 31 57.5	0 54.8	0.660 6146	1 4510	19 3.9
4	1 55 32.72	7.14	10 32 52.3	0 59.0	0.662 0656	1 4540	19 0.1
5	1 55 39.86	7.92	10 33 51.3	1 3.2	0.663 5196	1 4564	18 56.3
6	1 55 47.78	8.69	+10 34 54.5	1 7.3	0.664 9760	1 4584	18 52.5
7	1 55 56.47	9.47	10 36 1.8	1 11.5	0.666 4344	1 4599	18 48.7
8	1 56 5.94	10.24	10 37 13.3	1 15.6	0.667 8943	1 4610	18 44.9
9	1 56 16.18	10.99	10 38 28.9	1 19.7	0.669 3553	1 4615	18 41.2
10	1 56 27.17	11.75	10 39 48.6	1 23.7	0.670 8168	1 4615	18 37.4
11	1 56 38.92	12.51	10 41 12.3	1 27.8	0.672 2783	1 4611	18 33.7
12	1 56 51.43	13.26	+10 42 40.1	1 31.8	0.673 7394	1 4603	18 30.0
13	1 57 4.69	14.01	10 44 11.9	1 35.6	0.675 1997	1 4590	18 26.3
14	1 57 18.70	14.75	10 45 47.5	1 39.6	0.676 6587	1 4574	18 22.6
15	1 57 33.45	15.49	10 47 27.1	1 43.5	0.678 1161	1 4552	18 18.9
16	1 57 48.94	16.21	10 49 10.6	1 47.3	0.679 5713	1 4526	18 15.2
17	1 58 5.15	16.93	10 50 57.9	1 51.0	0.681 0239	1 4496	18 11.6
18	1 58 22.08	17.65	+10 52 48.9	1 54.7	0.682 4735	1 4463	18 7.9
19	1 58 39.73	18.36	10 54 43.6	1 58.3	0.683 9198	1 4425	18 4.3
20	1 58 58.09	19.05	10 56 41.9	2 1.9	0.685 3623	1 4384	18 0.7
21	1 59 17.14	19.75	10 58 43.8	2 5.3	0.686 8007	1 4339	17 57.1
22	1 59 36.89	20.43	11 0 49.1	2 8.8	0.688 2346	1 4292	17 53.5
23	1 59 57.32	21.11	11 2 57.9	2 12.4	0.689 6638	1 4243	17 49.9
24	2 0 18.43	21.79	+11 5 10.3	2 15.8	0.691 0881	1 4189	17 46.4
25	2 0 40.22	22.45	11 7 26.1	2 19.1	0.692 5070	1 4133	17 42.8
26	2 1 2.67	23.11	11 9 45.2	2 22.3	0.693 9203	1 4075	17 39.2
27	2 1 25.78	23.76	11 12 7.5	2 25.6	0.695 3278	1 4014	17 35.7
28	2 1 49.54	24.41	11 14 33.1	2 28.8	0.696 7292	1 3949	17 32.2
29	2 2 13.95	25.05	11 17 1.9	2 31.9	0.698 1241	1 3883	17 28.7
30	2 2 39.00	25.68	+11 19 33.8	2 34.9	0.699 5124	1 3814	17 25.2
31	2 3 4.68	26.31	11 22 8.7	2 38.0	0.700 8938	1 3742	17 21.7
Febr. 1	2 3 30.99	26.93	11 24 46.7	2 41.0	0.702 2680	1 3667	17 18.2
2	2 3 57.92	27.55	11 27 27.7	2 43.8	0.703 6347	1 3588	17 14.7
3	2 4 25.47	28.17	11 30 11.5	2 46.7	0.704 9935	1 3509	17 11.2
4	2 4 53.64	28.77	11 32 58.2	2 49.6	0.706 3444	1 3427	17 7.7
5	2 5 22.41	29.37	+11 35 47.8	2 52.4	0.707 6871	1 3341	17 4.3
6	2 5 51.78	29.95	11 38 40.2	2 55.1	0.709 0212	1 3254	17 0.9
7	2 6 21.73	30.54	11 41 35.3	2 57.9	0.710 3466	1 3165	16 57.4
8	2 6 52.27	31.12	11 44 33.2	3 0.5	0.711 6631	1 3074	16 54.0
9	2 7 23.39	31.69	11 47 33.7	3 3.1	0.712 9705	1 2980	16 50.6
10	2 7 55.08		+11 50 36.8		0.714 2685		16 47.2

Tag	0h Welt-Zeit: Scheinbare Rektaszension		Scheinbare Deklination		log Δ		Obere Kulmination in Greenwich
1929	h m s	s	° ′ ″	′ ″			h m
Febr. 10	2 7 55.08	32.25	+11 50 36.8	3 5.5	0.714 2685	1 2882	16 47.2
11	2 8 27.33	32.80	11 53 42.3	3 8.0	0.715 5567	1 2784	16 43.8
12	2 9 0.13	33.36	11 56 50.3	3 10.5	0.716 8351	1 2682	16 40.4
13	2 9 33.49	33.90	12 0 0.8	3 12.8	0.718 1033	1 2577	16 37.1
14	2 10 7.39	34.42	12 3 13.6	3 15.0	0.719 3610	1 2472	16 33.7
15	2 10 41.81	34.95	12 6 28.6	3 17.2	0.720 6082	1 2364	16 30.3
16	2 11 16.76	35.47	+12 9 45.8	3 19.5	0.721 8446	1 2256	16 27.0
17	2 11 52.23	35.98	12 13 5.3	3 21.6	0.723 0702	1 2146	16 23.6
18	2 12 28.21	36.48	12 16 26.9	3 23.6	0.724 2848	1 2035	16 20.3
19	2 13 4.69	36.98	12 19 50.5	3 25.6	0.725 4883	1 1922	16 17.0
20	2 13 41.67	37.46	12 23 16.1	3 27.6	0.726 6805	1 1808	16 13.7
21	2 14 19.13	37.94	12 26 43.7	3 29.5	0.727 8613	1 1694	16 10.4
22	2 14 57.07	38.41	+12 30 13.2	3 31.2	0.729 0307	1 1578	16 7.1
23	2 15 35.48	38.87	12 33 44.4	3 33.0	0.730 1885	1 1462	16 3.8
24	2 16 14.35	39.34	12 37 17.4	3 34.8	0.731 3347	1 1344	16 0.5
25	2 16 53.69	39.79	12 40 52.2	3 36.4	0.732 4691	1 1225	15 57.2
26	2 17 33.48	40.23	12 44 28.6	3 38.0	0.733 5916	1 1105	15 54.0
27	2 18 13.71	40.68	12 48 6.6	3 39.6	0.734 7021	1 0982	15 50.7
28	2 18 54.39	41.12	+12 51 46.2	3 41.2	0.735 8003	1 0859	15 47.4
März 1	2 19 35.51	41.55	12 55 27.4	3 42.6	0.736 8862	1 0736	15 44.2
2	2 20 17.06	41.97	12 59 10.0	3 44.1	0.737 9598	1 0611	15 41.0
3	2 20 59.03	42.39	13 2 54.1	3 45.5	0.739 0209	1 0486	15 37.7
4	2 21 41.42	42.80	13 6 39.6	3 46.9	0.740 0695	1 0360	15 34.5
5	2 22 24.22	43.22	13 10 26.5	3 48.1	0.741 1055	1 0232	15 31.3
6	2 23 7.44	43.62	+13 14 14.6	3 49.3	0.742 1287	1 0103	15 28.1
7	2 23 51.06	44.00	13 18 3.9	3 50.6	0.743 1390	9974	15 24.9
8	2 24 35.06	44.40	13 21 54.5	3 51.8	0.744 1364	9843	15 21.7
9	2 25 19.46	44.78	13 25 46.3	3 52.9	0.745 1207	9711	15 18.5
10	2 26 4.24	45.15	13 29 39.2	3 54.0	0.746 0918	9578	15 15.3
11	2 26 49.39	45.52	13 33 33.2	3 54.9	0.747 0496	9444	15 12.1
12	2 27 34.91	45.89	+13 37 28.1	3 55.9	0.747 9940	9310	15 9.0
13	2 28 20.80	46.24	13 41 24.0	3 56.8	0.748 9250	9174	15 5.8
14	2 29 7.04	46.59	13 45 20.8	3 57.6	0.749 8424	9038	15 2.6
15	2 29 53.63	46.93	13 49 18.4	3 58.5	0.750 7462	8901	14 59.5
16	2 30 40.56	47.27	13 53 16.9	3 59.2	0.751 6363	8763	14 56.3
17	2 31 27.83	47.59	13 57 16.1	3 59.9	0.752 5126	8626	14 53.2
18	2 32 15.42	47.92	+14 1 16.0	4 0.6	0.753 3752	8487	14 50.0
19	2 33 3.34	48.24	14 5 16.6	4 1.2	0.754 2239	8349	14 46.9
20	2 33 51.58	48.54	14 9 17.8	4 1.7	0.755 0588	8211	14 43.8
21	2 34 40.12	48.85	14 13 19.5	4 2.2	0.755 8799	8072	14 40.6
22	2 35 28.97	49.14	14 17 21.7	4 2.7	0.756 6871	7932	14 37.5
23	2 36 18.11		+14 21 24.4		0.757 4803		14 34.4

Tag	Scheinbare Rektaszension (0ʰ Welt-Zeit)	Diff.	Scheinbare Deklination (0ʰ Welt-Zeit)	Diff.	log Δ (0ʰ Welt-Zeit)	Diff.	Obere Kulmination in Greenwich
1929	h m s	s	° ′ ″	′ ″			h m
März 23	2 36 18.11	49.44	+14 21 24.4	4 3.1	0.757 4803	7793	14 34.4
24	2 37 7.55	49.72	14 25 27.5	4 3.6	0.758 2596	7653	14 31.3
25	2 37 57.27	50.01	14 29 31.1	4 3.9	0.759 0249	7514	14 28.2
26	2 38 47.28	50.29	14 33 35.0	4 4.2	0.759 7763	7374	14 25.1
27	2 39 37.57	50.56	14 37 39.2	4 4.5	0.760 5137	7235	14 22.0
28	2 40 28.13	50.82	14 41 43.7	4 4.7	0.761 2372	7095	14 18.9
29	2 41 18.95	51.09	+14 45 48.4	4 4.9	0.761 9467	6955	14 15.8
30	2 42 10.04	51.35	14 49 53.3	4 5.0	0.762 6422	6813	14 12.8
31	2 43 1.39	51.61	14 53 58.3	4 5.2	0.763 3235	6671	14 9.7
April 1	2 43 53.00	51.85	14 58 3.5	4 5.3	0.763 9906	6530	14 6.6
2	2 44 44.85	52.09	15 2 8.8	4 5.3	0.764 6436	6388	14 3.6
3	2 45 36.94	52.33	15 6 14.1	4 5.3	0.765 2824	6246	14 0.5
4	2 46 29.27	52.57	+15 10 19.4	4 5.4	0.765 9070	6104	13 57.4
5	2 47 21.84	52.80	15 14 24.8	4 5.3	0.766 5174	5962	13 54.4
6	2 48 14.64	53.02	15 18 30.1	4 5.2	0.767 1136	5818	13 51.3
7	2 49 7.66	53.24	15 22 35.3	4 5.1	0.767 6954	5672	13 48.2
8	2 50 0.90	53.45	15 26 40.4	4 4.9	0.768 2626	5527	13 45.2
9	2 50 54.35	53.66	15 30 45.3	4 4.7	0.768 8153	5382	13 42.2
10	2 51 48.01	53.85	+15 34 50.0	4 4.4	0.769 3535	5236	13 39.1
11	2 52 41.86	54.05	15 38 54.4	4 4.1	0.769 8771	5092	13 36.1
12	2 53 35.91	54.25	15 42 58.5	4 3.9	0.770 3863	4946	13 33.1
13	2 54 30.16	54.43	15 47 2.4	4 3.5	0.770 8809	4801	13 30.0
14	2 55 24.59	54.60	15 51 5.9	4 3.1	0.771 3610	4656	13 27.0
15	2 56 19.19	54.78	15 55 9.0	4 2.6	0.771 8266	4511	13 24.0
16	2 57 13.97	54.94	+15 59 11.6	4 2.1	0.772 2777	4366	13 21.0
17	2 58 8.91	55.11	16 3 13.7	4 1.6	0.772 7143	4221	13 17.9
18	2 59 4.02	55.26	16 7 15.3	4 1.1	0.773 1364	4076	13 14.9
19	2 59 59.28	55.41	16 11 16.4	4 0.5	0.773 5440	3931	13 11.9
20	3 0 54.69	55.56	16 15 16.9	3 59.9	0.773 9371	3787	13 8.9
21	3 1 50.25	55.70	16 19 16.8	3 59.2	0.774 3158	3644	13 5.9
22	3 2 45.95	55.84	+16 23 16.0	3 58.6	0.774 6802	3499	13 2.9
23	3 3 41.79	55.97	16 27 14.6	3 57.9	0.775 0301	3355	12 59.9
24	3 4 37.76	56.11	16 31 12.5	3 57.2	0.775 3656	3212	12 56.9
25	3 5 33.87	56.23	16 35 9.7	3 56.4	0.775 6868	3069	12 53.9
26	3 6 30.10	56.35	16 39 6.1	3 55.7	0.775 9937	2924	12 50.9
27	3 7 26.45	56.47	16 43 1.8	3 55.0	0.776 2861	2781	12 47.9
28	3 8 22.92	56.58	+16 46 56.8	3 54.2	0.776 5642	2638	12 44.9
29	3 9 19.50	56.69	16 50 51.0	3 53.3	0.776 8280	2493	12 41.9
30	3 10 16.19	56.79	16 54 44.3	3 52.4	0.777 0773	2348	12 38.9
Mai 1	3 11 12.98	56.90	16 58 36.7	3 51.6	0.777 3121	2204	12 35.9
2	3 12 9.88	56.99	17 2 28.3	3 50.6	0.777 5325	2061	12 32.9
3	3 13 6.87		+17 6 18.9		0.777 7386		12 29.9

Tag	0ʰ Welt-Zeit						Obere Kulmination in Greenwich
	Scheinbare Rektaszension		Scheinbare Deklination		log Δ		
1929	h m s	s	° ′ ″	′ ″			h m
Mai 3	3 13 6.87	57.09	+17 6 18.9	3 49.7	0.777 7386	1917	12 29.9
4	3 14 3.96	57.18	17 10 8.6	3 48.8	0.777 9303	1772	12 26.9
5	3 15 1.14	57.26	17 13 57.4	3 47.7	0.778 1075	1627	12 24.0
6	3 15 58.40	57.33	17 17 45.1	3 46.7	0.778 2702	1482	12 21.0
7	3 16 55.73	57.40	17 21 31.8	3 45.7	0.778 4184	1337	12 18.0
8	3 17 53.13	57.46	17 25 17.5	3 44.7	0.778 5521	1192	12 15.0
9	3 18 50.59	57.53	+17 29 2.2	3 43.5	0.778 6713	1046	12 12.0
10	3 19 48.12	57.58	17 32 45.7	3 42.3	0.778 7759	901	12 9.1
11	3 20 45.70	57.63	17 36 28.0	3 41.2	0.778 8660	756	12 6.1
12	3 21 43.33	57.68	17 40 9.2	3 40.0	0.778 9416	611	12 3.1
13	3 22 41.01	57.71	17 43 49.2	3 38.9	0.779 0027	467	12 0.1
14	3 23 38.72	57.74	17 47 28.1	3 37.7	0.779 0494	323	11 57.2
15	3 24 36.46	57.77	+17 51 5.8	3 36.4	0.779 0817	180	11 54.2
16	3 25 34.23	57.79	17 54 42.2	3 35.1	0.779 0997	36	11 51.2
17	3 26 32.02	57.81	17 58 17.3	3 33.9	0.779 1033	107	11 48.2
18	3 27 29.83	57.83	18 1 51.2	3 32.5	0.779 0926	251	11 45.3
19	3 28 27.66	57.83	18 5 23.7	3 31.1	0.779 0675	394	11 42.3
20	3 29 25.49	57.84	18 8 54.8	3 29.9	0.779 0281	535	11 39.3
21	3 30 23.33	57.84	+18 12 24.7	3 28.5	0.778 9746	677	11 36.3
22	3 31 21.17	57.84	18 15 53.2	3 27.0	0.778 9069	819	11 33.4
23	3 32 19.01	57.83	18 19 20.2	3 25.7	0.778 8250	960	11 30.4
24	3 33 16.84	57.82	18 22 45.9	3 24.4	0.778 7290	1100	11 27.4
25	3 34 14.66	57.81	18 26 10.3	3 22.9	0.778 6190	1241	11 24.4
26	3 35 12.47	57.78	18 29 33.2	3 21.5	0.778 4949	1383	11 21.5
27	3 36 10.25	57.76	+18 32 54.7	3 20.0	0.778 3566	1525	11 18.5
28	3 37 8.01	57.73	18 36 14.7	3 18.6	0.778 2041	1667	11 15.5
29	3 38 5.74	57.70	18 39 33.3	3 17.2	0.778 0374	1807	11 12.5
30	3 39 3.44	57.66	18 42 50.5	3 15.6	0.777 8567	1948	11 9.6
31	3 40 1.10	57.62	18 46 6.1	3 14.2	0.777 6619	2089	11 6.6
Juni 1	3 40 58.72	57.57	18 49 20.3	3 12.6	0.777 4530	2230	11 3.6
2	3 41 56.29	57.52	+18 52 32.9	3 11.1	0.777 2300	2371	11 0.7
3	3 42 53.81	57.45	18 55 44.0	3 9.6	0.776 9929	2512	10 57.7
4	3 43 51.26	57.40	18 58 53.6	3 8.0	0.776 7417	2655	10 54.7
5	3 44 48.66	57.33	19 2 1.6	3 6.5	0.776 4762	2797	10 51.7
6	3 45 45.99	57.24	19 5 8.1	3 4.9	0.776 1965	2939	10 48.7
7	3 46 43.23	57.16	19 8 13.0	3 3.3	0.775 9026	3080	10 45.8
8	3 47 40.39	57.08	+19 11 16.3	3 1.6	0.775 5946	3221	10 42.8
9	3 48 37.47	56.99	19 14 17.9	3 0.0	0.775 2725	3362	10 39.8
10	3 49 34.46	56.88	19 17 17.9	2 58.4	0.774 9363	3502	10 36.8
11	3 50 31.34	56.77	19 20 16.3	2 56.7	0.774 5861	3642	10 33.8
12	3 51 28.11	56.67	19 23 13.0	2 55.1	0.774 2219	3781	10 30.8
13	3 52 24.78		+19 26 8.1		0.773 8438		10 27.8

Tag	0h Welt-Zeit						Obere Kulmination in Greenwich
	Scheinbare Rektaszension		Scheinbare Deklination		log Δ		
1929	h m s	s	° ′ ″	′ ″			h m
Juni 13	3 52 24.78	56.55	+19 26 8.1	2 53.4	0.773 8438	3920	10 27.8
14	3 53 21.33	56.43	19 29 1.5	2 51.6	0.773 4518	4057	10 24.8
15	3 54 17.76	56.31	19 31 53.1	2 49.9	0.773 0461	4194	10 21.8
16	3 55 14.07	56.17	19 34 43.0	2 48.3	0.772 6267	4332	10 18.8
17	3 56 10.24	56.03	19 37 31.3	2 46.6	0.772 1935	4469	10 15.8
18	3 57 6.27	55.89	19 40 17.9	2 44.8	0.771 7466	4605	10 12.8
19	3 58 2.16	55.74	+19 43 2.7	2 43.1	0.771 2861	4742	10 9.8
20	3 58 57.90	55.60	19 45 45.8	2 41.5	0.770 8119	4878	10 6.8
21	3 59 53.50	55.44	19 48 27.3	2 39.7	0.770 3241	5013	10 3.8
22	4 0 48.94	55.27	19 51 7.0	2 38.0	0.769 8228	5150	10 0.8
23	4 1 44.21	55.11	19 53 45.0	2 36.2	0.769 3078	5286	9 57.8
24	4 2 39.32	54.96	19 56 21.2	2 34.4	0.768 7792	5420	9 54.8
25	4 3 34.28	54.78	+19 58 55.6	2 32.8	0.768 2372	5556	9 51.8
26	4 4 29.06	54.58	20 1 28.4	2 31.0	0.767 6816	5690	9 48.7
27	4 5 23.64	54.40	20 3 59.4	2 29.3	0.767 1126	5825	9 45.7
28	4 6 18.04	54.21	20 6 28.7	2 27.6	0.766 5301	5960	9 42.6
29	4 7 12.25	54.01	20 8 56.3	2 25.8	0.765 9341	6094	9 39.6
30	4 8 6.26	53.80	20 11 22.1	2 24.0	0.765 3247	6229	9 36.6
Juli 1	4 9 0.06	53.58	+20 13 46.1	2 22.3	0.764 7018	6362	9 33.5
2	4 9 53.64	53.37	20 16 8.4	2 20.6	0.764 0656	6496	9 30.5
3	4 10 47.01	53.15	20 18 29.0	2 18.7	0.763 4160	6631	9 27.5
4	4 11 40.16	52.92	20 20 47.7	2 17.0	0.762 7529	6765	9 24.4
5	4 12 33.08	52.68	20 23 4.7	2 15.2	0.762 0764	6899	9 21.3
6	4 13 25.76	52.44	20 25 19.9	2 13.4	0.761 3865	7033	9 18.3
7	4 14 18.20	52.18	+20 27 33.3	2 11.5	0.760 6832	7165	9 15.2
8	4 15 10.38	51.92	20 29 44.8	2 9.8	0.759 9667	7295	9 12.1
9	4 16 2.30	51.65	20 31 54.6	2 8.0	0.759 2372	7425	9 9.1
10	4 16 53.95	51.38	20 34 2.6	2 6.2	0.758 4947	7555	9 6.0
11	4 17 45.33	51.10	20 36 8.8	2 4.4	0.757 7392	7684	9 2.9
12	4 18 36.43	50.81	20 38 13.2	2 2.7	0.756 9708	7812	8 59.8
13	4 19 27.24	50.51	+20 40 15.9	2 0.8	0.756 1896	7939	8 56.7
14	4 20 17.75	50.22	20 42 16.7	1 59.1	0.755 3957	8066	8 53.6
15	4 21 7.97	49.92	20 44 15.8	1 57.4	0.754 5891	8192	8 50.5
16	4 21 57.89	49.60	20 46 13.2	1 55.5	0.753 7699	8318	8 47.4
17	4 22 47.49	49.28	20 48 8.7	1 53.7	0.752 9381	8443	8 44.3
18	4 23 36.77	48.97	20 50 2.4	1 51.9	0.752 0938	8567	8 41.2
19	4 24 25.74	48.64	+20 51 54.3	1 50.1	0.751 2371	8690	8 38.1
20	4 25 14.38	48.31	20 53 44.4	1 48.4	0.750 3681	8813	8 34.9
21	4 26 2.69	47.96	20 55 32.8	1 46.8	0.749 4868	8935	8 31.8
22	4 26 50.65	47.61	20 57 19.6	1 45.1	0.748 5933	9057	8 28.7
23	4 27 38.26	47.26	20 59 4.7	1 43.4	0.747 6876	9178	8 25.5
24	4 28 25.52		+21 0 48.1		0.746 7698		8 22.4

Tag	0h Welt-Zeit						Obere Kulmination in Greenwich
	Scheinbare Rektaszension		Scheinbare Deklination		log Δ		
1929	h m s	s	° ′ ″	′ ″			h m
Juli 24	4 28 25.52	46.90	+21 0 48.1	1 41.6	0.746 7698	9299	8 22.4
25	4 29 12.42	46.54	21 2 29.7	1 39.8	0.745 8399	9419	8 19.2
26	4 29 58.96	46.16	21 4 9.5	1 38.1	0.744 8980	9539	8 16.1
27	4 30 45.12	45.78	21 5 47.6	1 36.4	0.743 9441	9659	8 12.9
28	4 31 30.90	45.39	21 7 24.0	1 34.7	0.742 9782	9777	8 9.7
29	4 32 16.29	44.99	21 8 58.7	1 33.0	0.742 0005	9895	8 6.6
30	4 33 1.28	44.59	+21 10 31.7	1 31.3	0.741 0110	1 0011	8 3.4
31	4 33 45.87	44.17	21 12 3.0	1 29.6	0.740 0099	1 0128	8 0.2
Aug. 1	4 34 30.04	43.75	21 13 32.6	1 27.9	0.738 9971	1 0243	7 57.0
2	4 35 13.79	43.32	21 15 0.5	1 26.2	0.737 9728	1 0357	7 53.8
3	4 35 57.11	42.87	21 16 26.7	1 24.6	0.736 9371	1 0470	7 50.5
4	4 36 39.98	42.43	21 17 51.3	1 22.8	0.735 8901	1 0583	7 47.3
5	4 37 22.41	41.98	+21 19 14.1	1 21.1	0.734 8318	1 0693	7 44.1
6	4 38 4.39	41.51	21 20 35.2	1 19.5	0.733 7625	1 0801	7 40.8
7	4 38 45.90	41.03	21 21 54.7	1 17.9	0.732 6824	1 0908	7 37.6
8	4 39 26.93	40.55	21 23 12.6	1 16.2	0.731 5916	1 1014	7 34.4
9	4 40 7.48	40.07	21 24 28.8	1 14.5	0.730 4902	1 1119	7 31.1
10	4 40 47.55	39.57	21 25 43.3	1 12.9	0.729 3783	1 1223	7 27.8
11	4 41 27.12	39.07	+21 26 56.2	1 11.3	0.728 2560	1 1324	7 24.5
12	4 42 6.19	38.56	21 28 7.5	1 9.8	0.727 1236	1 1424	7 21.2
13	4 42 44.75	38.05	21 29 17.3	1 8.2	0.725 9812	1 1522	7 18.0
14	4 43 22.80	37.52	21 30 25.5	1 6.5	0.724 8290	1 1619	7 14.7
15	4 44 0.32	36.99	21 31 32.0	1 5.0	0.723 6671	1 1713	7 11.4
16	4 44 37.31	36.44	21 32 37.0	1 3.5	0.722 4958	1 1807	7 8.0
17	4 45 13.75	35.91	+21 33 40.5	1 1.9	0.721 3151	1 1900	7 4.7
18	4 45 49.66	35.36	21 34 42.4	1 0.4	0.720 1251	1 1990	7 1.4
19	4 46 25.02	34.80	21 35 42.8	0 58.9	0.718 9261	1 2079	6 58.0
20	4 46 59.82	34.22	21 36 41.7	0 57.3	0.717 7182	1 2168	6 54.6
21	4 47 34.04	33.65	21 37 39.0	0 55.8	0.716 5014	1 2254	6 51.3
22	4 48 7.69	33.06	21 38 34.8	0 54.4	0.715 2760	1 2337	6 47.9
23	4 48 40.75	32.47	+21 39 29.2	0 53.0	0.714 0423	1 2420	6 44.5
24	4 49 13.22	31.87	21 40 22.2	0 51.4	0.712 8003	1 2502	6 41.1
25	4 49 45.09	31.27	21 41 13.6	0 50.0	0.711 5501	1 2581	6 37.7
26	4 50 16.36	30.65	21 42 3.6	0 48.6	0.710 2920	1 2659	6 34.3
27	4 50 47.01	30.02	21 42 52.2	0 47.1	0.709 0261	1 2735	6 30.9
28	4 51 17.03	29.39	21 43 39.3	0 45.7	0.707 7526	1 2809	6 27.4
29	4 51 46.42	28.74	+21 44 25.0	0 44.2	0.706 4717	1 2880	6 24.0
30	4 52 15.16	28.08	21 45 9.2	0 42.8	0.705 1837	1 2949	6 20.6
31	4 52 43.24	27.42	21 45 52.0	0 41.4	0.703 8888	1 3014	6 17.1
Sept. 1	4 53 10.66	26.76	21 46 33.4	0 40.0	0.702 5874	1 3078	6 13.6
2	4 53 37.42	26.07	21 47 13.4	0 38.6	0.701 2796	1 3138	6 10.1
3	4 54 3.49		+21 47 52.0		0.699 9658		6 6.6

Tag	0h Welt-Zeit: Scheinbare Rektaszension		0h Welt-Zeit: Scheinbare Deklination		log Δ		Obere Kulmination in Greenwich
1929	h m s	s	° ′ ″	″			h m
Sept. 3	4 54 3.49	25.37	+21 47 52.0	37.3	0.699 9658	1 3196	6 6.6
4	4 54 28.86	24.68	21 48 29.3	35.9	0.698 6462	1 3250	6 3.1
5	4 54 53.54	23.97	21 49 5.2	34.5	0.697 3212	1 3302	5 59.5
6	4 55 17.51	23.26	21 49 39.7	33.1	0.695 9910	1 3351	5 56.0
7	4 55 40.77	22.54	21 50 12.8	31.8	0.694 6559	1 3395	5 52.5
8	4 56 3.31	21.82	21 50 44.6	30.5	0.693 3164	1 3437	5 48.9
9	4 56 25.13	21.09	+21 51 15.1	29.1	0.691 9727	1 3476	5 45.3
10	4 56 46.22	20.34	21 51 44.2	27.8	0.690 6251	1 3512	5 41.8
11	4 57 6.56	19.59	21 52 12.0	26.6	0.689 2739	1 3545	5 38.2
12	4 57 26.15	18.85	21 52 38.6	25.3	0.687 9194	1 3575	5 34.5
13	4 57 45.00	18.09	21 53 3.9	24.0	0.686 5619	1 3601	5 30.9
14	4 58 3.09	17.33	21 53 27.9	22.8	0.685 2018	1 3624	5 27.3
15	4 58 20.42	16.55	+21 53 50.7	21.6	0.683 8394	1 3643	5 23.6
16	4 58 36.97	15.78	21 54 12.3	20.3	0.682 4751	1 3658	5 20.0
17	4 58 52.75	14.99	21 54 32.6	19.1	0.681 1093	1 3670	5 16.3
18	4 59 7.74	14.20	21 54 51.7	17.8	0.679 7423	1 3679	5 12.6
19	4 59 21.94	13.41	21 55 9.5	16.6	0.678 3744	1 3685	5 8.9
20	4 59 35.35	12.61	21 55 26.1	15.4	0.677 0059	1 3687	5 5.2
21	4 59 47.96	11.81	+21 55 41.5	14.2	0.675 6372	1 3685	5 1.5
22	4 59 59.77	10.99	21 55 55.7	13.0	0.674 2687	1 3678	4 57.8
23	5 0 10.76	10.17	21 56 8.7	11.8	0.672 9009	1 3669	4 54.0
24	5 0 20.93	9.35	21 56 20.5	10.6	0.671 5340	1 3656	4 50.2
25	5 0 30.28	8.52	21 56 31.1	9.5	0.670 1684	1 3637	4 46.4
26	5 0 38.80	7.67	21 56 40.6	8.3	0.668 8047	1 3615	4 42.6
27	5 0 46.47	6.83	+21 56 48.9	7.0	0.667 4432	1 3587	4 38.8
28	5 0 53.30	5.98	21 56 55.9	5.8	0.666 0845	1 3556	4 35.0
29	5 0 59.28	5.13	21 57 1.7	4.7	0.664 7289	1 3519	4 31.2
30	5 1 4.41	4.27	21 57 6.4	3.5	0.663 3770	1 3477	4 27.3
Okt. 1	5 1 8.68	3.41	21 57 9.9	2.3	0.662 0293	1 3428	4 23.5
2	5 1 12.09	2.54	21 57 12.2	1.1	0.660 6865	1 3375	4 19.6
3	5 1 14.63	1.68	+21 57 13.3	0.0	0.659 3490	1 3317	4 15.7
4	5 1 16.31	0.82	21 57 13.3	1.2	0.658 0173	1 3252	4 11.8
5	5 1 17.13	0.05	21 57 12.1	2.4	0.656 6921	1 3184	4 7.8
6	5 1 17.08	0.93	21 57 9.7	3.5	0.655 3737	1 3110	4 3.9
7	5 1 16.15	1.79	21 57 6.2	4.7	0.654 0627	1 3030	4 0.0
8	5 1 14.36	2.66	21 57 1.5	5.8	0.652 7597	1 2944	3 56.0
9	5 1 11.70	3.54	+21 56 55.7	7.0	0.651 4653	1 2854	3 52.1
10	5 1 8.16	4.40	21 56 48.7	8.1	0.650 1799	1 2758	3 48.1
11	5 1 3.76	5.26	21 56 40.6	9.2	0.648 9041	1 2656	3 44.1
12	5 0 58.50	6.11	21 56 31.4	10.4	0.647 6385	1 2549	3 40.0
13	5 0 52.39	6.98	21 56 21.0	11.6	0.646 3836	1 2435	3 36.0
14	5 0 45.41		+21 56 9.4		0.645 1401		3 31.9

Tag	Scheinbare Rektaszension (0h Welt-Zeit)		Scheinbare Deklination (0h Welt-Zeit)		log Δ (0h Welt-Zeit)		Obere Kulmination in Greenwich
1929	h m s	s	° ′ ″	″			h m
Okt. 14	5 0 45.41	7.84	+21 56 9.4	12.7	0.645 1401	1 2317	3 31.9
15	5 0 37.57	8.68	21 55 56.7	13.7	0.643 9084	1 2194	3 27.9
16	5 0 28.89	9.53	21 55 43.0	14.9	0.642 6890	1 2065	3 23.8
17	5 0 19.36	10.39	21 55 28.1	16.0	0.641 4825	1 1931	3 19.7
18	5 0 8.97	11.23	21 55 12.1	17.2	0.640 2894	1 1791	3 15.6
19	4 59 57.74	12.06	21 54 54.9	18.4	0.639 1103	1 1645	3 11.5
20	4 59 45.68	12.89	+21 54 36.5	19.5	0.637 9458	1 1493	3 7.4
21	4 59 32.79	13.73	21 54 17.0	20.6	0.636 7965	1 1336	3 3.2
22	4 59 19.06	14.55	21 53 56.4	21.8	0.635 6629	1 1173	2 59.1
23	4 59 4.51	15.36	21 53 34.6	22.9	0.634 5456	1 1003	2 54.9
24	4 58 49.15	16.17	21 53 11.7	24.1	0.633 4453	1 0829	2 50.7
25	4 58 32.98	16.98	21 52 47.6	25.2	0.632 3624	1 0647	2 46.5
26	4 58 16.00	17.78	+21 52 22.4	26.3	0.631 2977	1 0458	2 42.2
27	4 57 58.22	18.56	21 51 56.1	27.5	0.630 2519	1 0264	2 38.0
28	4 57 39.66	19.33	21 51 28.6	28.7	0.629 2255	1 0065	2 33.8
29	4 57 20.33	20.10	21 50 59.9	29.8	0.628 2190	9858	2 29.5
30	4 57 0.23	20.86	21 50 30.1	31.0	0.627 2332	9645	2 25.3
31	4 56 39.37	21.59	21 49 59.1	32.1	0.626 2687	9425	2 21.0
Nov. 1	4 56 17.78	22.31	+21 49 27.0	33.3	0.625 3262	9200	2 16.7
2	4 55 55.47	23.02	21 48 53.7	34.3	0.624 4062	8968	2 12.4
3	4 55 32.45	23.72	21 48 19.4	35.5	0.623 5094	8730	2 8.1
4	4 55 8.73	24.40	21 47 43.9	36.6	0.622 6364	8488	2 3.8
5	4 54 44.33	25.06	21 47 7.3	37.6	0.621 7876	8240	1 59.4
6	4 54 19.27	25.70	21 46 29.7	38.7	0.620 9636	7986	1 55.1
7	4 53 53.57	26.33	+21 45 51.0	39.8	0.620 1650	7727	1 50.7
8	4 53 27.24	26.94	21 45 11.2	40.8	0.619 3923	7462	1 46.4
9	4 53 0.30	27.52	21 44 30.4	41.9	0.618 6461	7194	1 42.0
10	4 52 32.78	28.09	21 43 48.5	42.9	0.617 9267	6921	1 37.6
11	4 52 4.69	28.65	21 43 5.6	43.8	0.617 2346	6642	1 33.2
12	4 51 36.04	29.18	21 42 21.8	44.8	0.616 5704	6360	1 28.8
13	4 51 6.86	29.68	+21 41 37.0	45.8	0.615 9344	6075	1 24.4
14	4 50 37.18	30.17	21 40 51.2	46.7	0.615 3269	5785	1 19.9
15	4 50 7.01	30.64	21 40 4.5	47.6	0.614 7484	5490	1 15.5
16	4 49 36.37	31.08	21 39 16.9	48.6	0.614 1994	5191	1 11.1
17	4 49 5.29	31.50	21 38 28.3	49.5	0.613 6803	4890	1 6.6
18	4 48 33.79	31.90	21 37 38.8	50.4	0.613 1913	4585	1 2.2
19	4 48 1.89	32.28	+21 36 48.4	51.2	0.612 7328	4276	0 57.7
20	4 47 29.61	32.64	21 35 57.2	52.0	0.612 3052	3963	0 53.2
21	4 46 56.97	32.97	21 35 5.2	52.8	0.611 9089	3647	0 48.8
22	4 46 24.00	33.28	21 34 12.4	53.5	0.611 5442	3329	0 44.3
23	4 45 50.72	33.57	21 33 18.9	54.3	0.611 2113	3007	0 39.8
24	4 45 17.15		+21 32 24.6		0.610 9106		0 35.3

Tag	0h Welt-Zeit Scheinbare Rektaszension		0h Welt-Zeit Scheinbare Deklination		0h Welt-Zeit log Δ		Obere Kulmination in Greenwich
1929	h m s	s	° ′ ″	″			h m
Nov. 24	4 45 17.15	33.83	+21 32 24.6	55.0	0.610 9106	2681	0 35.3
25	4 44 43.32	34.06	21 31 29.6	55.6	0.610 6425	2353	0 30.8
26	4 44 9.26	34.27	21 30 34.0	56.3	0.610 4072	2023	0 26.3
27	4 43 34.99	34.46	21 29 37.7	56.9	0.610 2049	1691	0 21.8
28	4 43 0.53	34.60	21 28 40.8	57.3	0.610 0358	1356	0 17.3
29	4 42 25.93	34.72	21 27 43.5	57.8	0.609 9002	1021	0 12.8
30	4 41 51.21	34.82	+21 26 45.7	58.2	0.609 7981	685	0 8.3
Dez. 1	4 41 16.39	34.90	21 25 47.5	58.6	0.609 7296	346	{0 3.8 / 23 59.3}
2	4 40 41.49	34.93	21 24 48.9	59.0	0.609 6950	8	23 54.8
3	4 40 6.56	34.94	21 23 49.9	59.2	0.609 6942	330	23 50.3
4	4 39 31.62	34.93	21 22 50.7	59.5	0.609 7272	670	23 45.8
5	4 38 56.69	34.88	21 21 51.2	59.6	0.609 7942	1008	23 41.2
6	4 38 21.81	34.80	+21 20 51.6	59.8	0.609 8950	1345	23 36.7
7	4 37 47.01	34.71	21 19 51.8	59.8	0.610 0295	1681	23 32.2
8	4 37 12.30	34.58	21 18 52.0	59.8	0.610 1976	2018	23 27.7
9	4 36 37.72	34.42	21 17 52.2	59.8	0.610 3994	2351	23 23.2
10	4 36 3.30	34.24	21 16 52.4	59.6	0.610 6345	2683	23 18.7
11	4 35 29.06	34.04	21 15 52.8	59.4	0.610 9028	3013	23 14.2
12	4 34 55.02	33.80	+21 14 53.4	59.2	0.611 2041	3341	23 9.7
13	4 34 21.22	33.53	21 13 54.2	58.9	0.611 5382	3667	23 5.3
14	4 33 47.69	33.26	21 12 55.3	58.6	0.611 9049	3989	23 0.8
15	4 33 14.43	32.96	21 11 56.7	58.2	0.612 3038	4309	22 56.3
16	4 32 41.47	32.63	21 10 58.5	57.7	0.612 7347	4626	22 51.8
17	4 32 8.84	32.27	21 10 0.8	57.3	0.613 1973	4941	22 47.4
18	4 31 36.57	31.89	+21 9 3.5	56.7	0.613 6914	5252	22 42.9
19	4 31 4.68	31.50	21 8 6.8	56.0	0.614 2166	5561	22 38.4
20	4 30 33.18	31.08	21 7 10.8	55.4	0.614 7727	5867	22 34.0
21	4 30 2.10	30.63	21 6 15.4	54.7	0.615 3594	6169	22 29.5
22	4 29 31.47	30.17	21 5 20.7	53.9	0.615 9763	6467	22 25.1
23	4 29 1.30	29.68	21 4 26.8	53.0	0.616 6230	6762	22 20.7
24	4 28 31.62	29.17	+21 3 33.8	52.1	0.617 2992	7052	22 16.3
25	4 28 2.45	28.64	21 2 41.7	51.1	0.618 0044	7338	22 11.9
26	4 27 33.81	28.10	21 1 50.6	50.1	0.618 7382	7620	22 7.5
27	4 27 5.71	27.52	21 1 0.5	48.9	0.619 5002	7897	22 3.1
28	4 26 38.19	26.93	21 0 11.6	47.8	0.620 2899	8171	21 58.7
29	4 26 11.26	26.32	20 59 23.8	46.5	0.621 1070	8438	21 54.3
30	4 25 44.94	25.70	+20 58 37.3	45.3	0.621 9508	8699	21 50.0
31	4 25 19.24	25.04	20 57 52.0	43.9	0.622 8207	8956	21 45.6
32	4 24 54.20		+20 57 8.1		0.623 7163		21 41.3

Tag	0h Welt-Zeit						Obere Kulmination in Greenwich
	Scheinbare Rektaszension		Scheinbare Deklination		log Δ		
1929	h m s	s	° ′ ″	″			h m
Jan. 0	17 32 18.06	29.84	−22 7 28.0	21.7	1.040 7205	1827	10 54.0
1	17 32 47.90	29.75	22 7 49.7	21.1	1.040 5378	1927	10 50.6
2	17 33 17.65	29.66	22 8 10.8	20.7	1.040 3451	2027	10 47.2
3	17 33 47.31	29.56	22 8 31.5	20.1	1.040 1424	2127	10 43.7
4	17 34 16.87	29.47	22 8 51.6	19.7	1.039 9297	2228	10 40.3
5	17 34 46.34	29.36	22 9 11.3	19.1	1.039 7069	2327	10 36.8
6	17 35 15.70	29.25	−22 9 30.4	18.7	1.039 4742	2426	10 33.4
7	17 35 44.95	29.14	22 9 49.1	18.1	1.039 2316	2525	10 30.0
8	17 36 14.09	29.01	22 10 7.2	17.7	1.038 9791	2624	10 26.5
9	17 36 43.10	28.87	22 10 24.9	17.1	1.038 7167	2722	10 23.1
10	17 37 11.97	28.75	22 10 42.0	16.7	1.038 4445	2820	10 19.6
11	17 37 40.72	28.61	22 10 58.7	16.1	1.038 1625	2918	10 16.1
12	17 38 9.33	28.46	−22 11 14.8	15.7	1.037 8707	3014	10 12.7
13	17 38 37.79	28.31	22 11 30.5	15.1	1.037 5693	3110	10 9.2
14	17 39 6.10	28.16	22 11 45.6	14.7	1.037 2583	3205	10 5.8
15	17 39 34.26	28.00	22 12 0.3	14.2	1.036 9378	3300	10 2.3
16	17 40 2.26	27.83	22 12 14.5	13.7	1.036 6078	3394	9 58.8
17	17 40 30.09	27.66	22 12 28.2	13.3	1.036 2684	3486	9 55.4
18	17 40 57.75	27.48	−22 12 41.5	12.7	1.035 9198	3580	9 51.9
19	17 41 25.23	27.31	22 12 54.2	12.2	1.035 5618	3672	9 48.4
20	17 41 52.54	27.12	22 13 6.4	11.8	1.035 1946	3764	9 44.9
21	17 42 19.66	26.93	22 13 18.2	11.4	1.034 8182	3854	9 41.4
22	17 42 46.59	26.73	22 13 29.6	10.9	1.034 4328	3944	9 37.9
23	17 43 13.32	26.54	22 13 40.5	10.5	1.034 0384	4032	9 34.4
24	17 43 39.86	26.34	−22 13 51.0	10.1	1.033 6352	4120	9 31.0
25	17 44 6.20	26.13	22 14 1.1	9.6	1.033 2232	4208	9 27.5
26	17 44 32.33	25.91	22 14 10.7	9.2	1.032 8024	4295	9 24.0
27	17 44 58.24	25.71	22 14 19.9	8.9	1.032 3729	4381	9 20.5
28	17 45 23.95	25.49	22 14 28.8	8.3	1.031 9348	4466	9 17.0
29	17 45 49.44	25.25	22 14 37.1	7.9	1.031 4882	4551	9 13.4
30	17 46 14.69	25.02	−22 14 45.0	7.5	1.031 0331	4635	9 9.9
31	17 46 39.71	24.79	22 14 52.5	7.1	1.030 5696	4719	9 6.4
Febr. 1	17 47 4.50	24.56	22 14 59.6	6.7	1.030 0977	4801	9 2.9
2	17 47 29.06	24.31	22 15 6.3	6.3	1.029 6176	4883	8 59.4
3	17 47 53.37	24.06	22 15 12.6	6.0	1.029 1293	4964	8 55.8
4	17 48 17.43	23.80	22 15 18.6	5.6	1.028 6329	5044	8 52.3
5	17 48 41.23	23.54	−22 15 24.2	5.3	1.028 1285	5123	8 48.8
6	17 49 4.77	23.28	22 15 29.5	4.9	1.027 6162	5201	8 45.2
7	17 49 28.05	23.01	22 15 34.4	4.5	1.027 0961	5279	8 41.7
8	17 49 51.06	22.73	22 15 38.9	4.1	1.026 5682	5355	8 38.1
9	17 50 13.79	22.46	22 15 43.0	3.8	1.026 0327	5429	8 34.6
10	17 50 36.25		−22 15 46.8		1.025 4898		8 31.0

Tag	0h Welt-Zeit Scheinbare Rektaszension		Scheinbare Deklination		log Δ		Obere Kulmination in Greenwich
1929	h m s	s	° ′ ″	″			h m
Febr. 10	17 50 36.25	22.17	−22 15 46.8	3.5	1.025 4898	5502	8 31.0
11	17 50 58.42	21.89	22 15 50.3	3.1	1.024 9396	5575	8 27.4
12	17 51 20.31	21.59	22 15 53.4	2.8	1.024 3821	5647	8 23.9
13	17 51 41.90	21.29	22 15 56.2	2.5	1.023 8174	5717	8 20.3
14	17 52 3.19	20.98	22 15 58.7	2.3	1.023 2457	5784	8 16.7
15	17 52 24.17	20.68	22 16 1.0	1.9	1.022 6673	5851	8 13.1
16	17 52 44.85	20.37	−22 16 2.9	1.7	1.022 0822	5916	8 9.5
17	17 53 5.22	20.05	22 16 4.6	1.3	1.021 4906	5981	8 5.9
18	17 53 25.27	19.74	22 16 5.9	1.1	1.020 8925	6045	8 2.3
19	17 53 45.01	19.42	22 16 7.0	0.9	1.020 2880	6106	7 58.7
20	17 54 4.43	19.09	22 16 7.9	0.6	1.019 6774	6166	7 55.1
21	17 54 23.52	18.76	22 16 8.5	0.3	1.019 0608	6225	7 51.5
22	17 54 42.28	18.42	−22 16 8.8	0.1	1.018 4383	6284	7 47.9
23	17 55 0.70	18.09	22 16 8.9	0.1	1.017 8099	6340	7 44.3
24	17 55 18.79	17.76	22 16 8.8	0.3	1.017 1759	6396	7 40.6
25	17 55 36.55	17.42	22 16 8.5	0.6	1.016 5363	6450	7 37.0
26	17 55 53.97	17.06	22 16 7.9	0.7	1.015 8913	6502	7 33.3
27	17 56 11.03	16.71	22 16 7.2	0.9	1.015 2411	6553	7 29.7
28	17 56 27.74	16.37	−22 16 6.3	1.1	1.014 5858	6603	7 26.0
März 1	17 56 44.11	16.01	22 16 5.2	1.3	1.013 9255	6652	7 22.3
2	17 57 0.12	15.65	22 16 3.9	1.4	1.013 2603	6699	7 18.7
3	17 57 15.77	15.27	22 16 2.5	1.6	1.012 5904	6744	7 15.0
4	17 57 31.04	14.91	22 16 0.9	1.8	1.011 9160	6789	7 11.3
5	17 57 45.95	14.54	22 15 59.1	2.0	1.011 2371	6831	7 7.7
6	17 58 0.49	14.15	−22 15 57.1	2.0	1.010 5540	6872	7 4.0
7	17 58 14.64	13.78	22 15 55.1	2.2	1.009 8668	6912	7 0.3
8	17 58 28.42	13.40	22 15 52.9	2.3	1.009 1756	6949	6 56.6
9	17 58 41.82	13.00	22 15 50.6	2.4	1.008 4807	6984	6 52.8
10	17 58 54.82	12.62	22 15 48.2	2.5	1.007 7823	7017	6 49.1
11	17 59 7.44	12.22	22 15 45.7	2.6	1.007 0806	7048	6 45.4
12	17 59 19.66	11.83	−22 15 43.1	2.8	1.006 3758	7077	6 41.7
13	17 59 31.49	11.42	22 15 40.3	2.8	1.005 6681	7105	6 37.9
14	17 59 42.91	11.02	22 15 37.5	2.9	1.004 9576	7131	6 34.2
15	17 59 53.93	10.63	22 15 34.6	3.0	1.004 2445	7156	6 30.4
16	18 0 4.56	10.22	22 15 31.6	3.0	1.003 5289	7179	6 26.7
17	18 0 14.78	9.81	22 15 28.6	3.1	1.002 8110	7199	6 22.9
18	18 0 24.59	9.40	−22 15 25.5	3.2	1.002 0911	7217	6 19.2
19	18 0 33.99	8.99	22 15 22.3	3.2	1.001 3694	7233	6 15.4
20	18 0 42.98	8.58	22 15 19.1	3.2	1.000 6461	7246	6 11.6
21	18 0 51.56	8.16	22 15 15.9	3.2	0.999 9215	7257	6 7.8
22	18 0 59.72	7.75	22 15 12.7	3.2	0.999 1958	7268	6 4.0
23	18 1 7.47		−22 15 9.5		0.998 4690		6 0.2

Tag	0h Welt-Zeit Scheinbare Rektaszension		Scheinbare Deklination		log Δ		Obere Kulmination in Greenwich
1929	h m s	s	° ′ ″	″			h m
März 23	18 1 7.47	7.33	−22 15 9.5	3.3	0.998 4690	7276	6 0.2
24	18 1 14.80	6.92	22 15 6.2	3.2	0.997 7414	7283	5 56.4
25	18 1 21.72	6.50	22 15 3.0	3.3	0.997 0131	7287	5 52.6
26	18 1 28.22	6.08	22 14 59.7	3.3	0.996 2844	7290	5 48.7
27	18 1 34.30	5.66	22 14 56.4	3.3	0.995 5554	7290	5 44.9
28	18 1 39.96	5.23	22 14 53.1	3.2	0.994 8264	7289	5 41.1
29	18 1 45.19	4.81	−22 14 49.9	3.3	0.994 0975	7285	5 37.2
30	18 1 50.00	4.38	22 14 46.6	3.2	0.993 3690	7280	5 33.3
31	18 1 54.38	3.95	22 14 43.4	3.2	0.992 6410	7273	5 29.5
April 1	18 1 58.33	3.53	22 14 40.2	3.2	0.991 9137	7263	5 25.6
2	18 2 1.86	3.10	22 14 37.0	3.1	0.991 1874	7252	5 21.8
3	18 2 4.96	2.66	22 14 33.9	3.1	0.990 4622	7238	5 17.9
4	18 2 7.62	2.23	−22 14 30.8	3.1	0.989 7384	7221	5 14.0
5	18 2 9.85	1.81	22 14 27.7	3.1	0.989 0163	7203	5 10.1
6	18 2 11.66	1.37	22 14 24.6	3.0	0.988 2960	7181	5 6.2
7	18 2 13.03	0.94	22 14 21.6	3.0	0.987 5779	7158	5 2.3
8	18 2 13.97	0.51	22 14 18.6	2.9	0.986 8621	7133	4 58.4
9	18 2 14.48	0.08	22 14 15.7	2.9	0.986 1488	7104	4 54.4
10	18 2 14.56	0.35	−22 14 12.8	2.8	0.985 4384	7072	4 50.5
11	18 2 14.21	0.78	22 14 10.0	2.8	0.984 7312	7040	4 46.6
12	18 2 13.43	1.21	22 14 7.2	2.7	0.984 0272	7004	4 42.6
13	18 2 12.22	1.63	22 14 4.5	2.6	0.983 3268	6966	4 38.7
14	18 2 10.59	2.06	22 14 1.9	2.6	0.982 6302	6926	4 34.7
15	18 2 8.53	2.49	22 13 59.3	2.4	0.981 9376	6883	4 30.7
16	18 2 6.04	2.90	−22 13 56.9	2.4	0.981 2493	6838	4 26.7
17	18 2 3.14	3.32	22 13 54.5	2.4	0.980 5655	6790	4 22.8
18	18 1 59.82	3.73	22 13 52.1	2.2	0.979 8865	6741	4 18.8
19	18 1 56.09	4.15	22 13 49.9	2.2	0.979 2124	6689	4 14.8
20	18 1 51.94	4.56	22 13 47.7	2.2	0.978 5435	6635	4 10.8
21	18 1 47.38	4.97	22 13 45.5	2.1	0.977 8800	6579	4 6.8
22	18 1 42.41	5.37	−22 13 43.4	2.0	0.977 2221	6521	4 2.8
23	18 1 37.04	5.78	22 13 41.4	1.9	0.976 5700	6460	3 58.7
24	18 1 31.26	6.18	22 13 39.5	1.9	0.975 9240	6398	3 54.7
25	18 1 25.08	6.57	22 13 37.6	1.7	0.975 2842	6333	3 50.7
26	18 1 18.51	6.97	22 13 35.9	1.7	0.974 6509	6266	3 46.7
27	18 1 11.54	7.37	22 13 34.2	1.6	0.974 0243	6197	3 42.6
28	18 1 4.17	7.75	−22 13 32.6	1.6	0.973 4046	6126	3 38.5
29	18 0 56.42	8.14	22 13 31.0	1.5	0.972 7920	6052	3 34.5
30	18 0 48.28	8.52	22 13 29.5	1.4	0.972 1868	5977	3 30.4
Mai 1	18 0 39.76	8.89	22 13 28.1	1.4	0.971 5891	5898	3 26.3
2	18 0 30.87	9.27	22 13 26.7	1.4	0.970 9993	5817	3 22.3
3	18 0 21.60		−22 13 25.3		0.970 4176		3 18.2

Tag	0ʰ Welt-Zeit: Scheinbare Rektaszension		Scheinbare Deklination		log Δ		Obere Kulmination in Greenwich
1929	h m s	s	° ′ ″	″			h m
Mai 3	18 0 21.60	9.65	−22 13 25.3	1.3	0.970 4176	5735	3 18.2
4	18 0 11.95	10.01	22 13 24.0	1.2	0.969 8441	5650	3 14.1
5	18 0 1.94	10.38	22 13 22.8	1.2	0.969 2791	5562	3 10.0
6	17 59 51.56	10.74	22 13 21.6	1.2	0.968 7229	5472	3 5.9
7	17 59 40.82	11.09	22 13 20.4	1.1	0.968 1757	5379	3 1.8
8	17 59 29.73	11.43	22 13 19.3	1.0	0.967 6378	5285	2 57.6
9	17 59 18.30	11.77	−22 13 18.3	1.0	0.967 1093	5189	2 53.5
10	17 59 6.53	12.10	22 13 17.3	0.9	0.966 5904	5090	2 49.4
11	17 58 54.43	12.43	22 13 16.4	0.9	0.966 0814	4990	2 45.3
12	17 58 42.00	12.76	22 13 15.5	0.9	0.965 5824	4887	2 41.1
13	17 58 29.24	13.07	22 13 14.6	0.9	0.965 0937	4782	2 37.0
14	17 58 16.17	13.37	22 13 13.7	0.8	0.964 6155	4675	2 32.8
15	17 58 2.80	13.68	−22 13 12.9	0.7	0.964 1480	4566	2 28.7
16	17 57 49.12	13.98	22 13 12.2	0.8	0.963 6914	4456	2 24.5
17	17 57 35.14	14.26	22 13 11.4	0.7	0.963 2458	4344	2 20.4
18	17 57 20.88	14.54	22 13 10.7	0.8	0.962 8114	4230	2 16.2
19	17 57 6.34	14.82	22 13 9.9	0.7	0.962 3884	4115	2 12.0
20	17 56 51.52	15.08	22 13 9.2	0.6	0.961 9769	3998	2 7.8
21	17 56 36.44	15.33	−22 13 8.6	0.6	0.961 5771	3880	2 3.7
22	17 56 21.11	15.58	22 13 8.0	0.7	0.961 1891	3762	1 59.5
23	17 56 5.53	15.83	22 13 7.3	0.6	0.960 8129	3640	1 55.3
24	17 55 49.70	16.07	22 13 6.7	0.7	0.960 4489	3517	1 51.1
25	17 55 33.63	16.29	22 13 6.0	0.6	0.960 0972	3393	1 46.9
26	17 55 17.34	16.51	22 13 5.4	0.7	0.959 7579	3268	1 42.7
27	17 55 0.83	16.73	−22 13 4.7	0.6	0.959 4311	3141	1 38.5
28	17 54 44.10	16.94	22 13 4.1	0.7	0.959 1170	3012	1 34.3
29	17 54 27.16	17.14	22 13 3.4	0.6	0.958 8158	2883	1 30.1
30	17 54 10.02	17.33	22 13 2.8	0.7	0.958 5275	2752	1 25.8
31	17 53 52.69	17.51	22 13 2.1	0.7	0.958 2523	2619	1 21.6
Juni 1	17 53 35.18	17.67	22 13 1.4	0.7	0.957 9904	2485	1 17.4
2	17 53 17.51	17.84	−22 13 0.7	0.7	0.957 7419	2351	1 13.2
3	17 52 59.67	18.00	22 13 0.0	0.7	0.957 5068	2216	1 8.9
4	17 52 41.67	18.14	22 12 59.3	0.7	0.957 2852	2078	1 4.7
5	17 52 23.53	18.28	22 12 58.6	0.7	0.957 0774	1940	1 0.5
6	17 52 5.25	18.40	22 12 57.9	0.7	0.956 8834	1801	0 56.2
7	17 51 46.85	18.52	22 12 57.2	0.8	0.956 7033	1662	0 52.0
8	17 51 28.33	18.63	−22 12 56.4	0.8	0.956 5371	1521	0 47.8
9	17 51 9.70	18.73	22 12 55.6	0.8	0.956 3850	1379	0 43.5
10	17 50 50.97	18.81	22 12 54.8	0.8	0.956 2471	1237	0 39.3
11	17 50 32.16	18.89	22 12 54.0	0.8	0.956 1234	1094	0 35.1
12	17 50 13.27	18.96	22 12 53.2	0.8	0.956 0140	952	0 30.8
13	17 49 54.31		−22 12 52.4		0.955 9188		0 26.6

Tag	0h Welt-Zeit Scheinbare Rektaszension		Scheinbare Deklination		log Δ		Obere Kulmination in Greenwich
1929	h m s	s	° ′ ″	″			h m
Juni 13	17 49 54.31	19.02	−22 12 52.4	0.8	0.955 9188	809	0 26.6
14	17 49 35.29	19.06	22 12 51.6	0.8	0.955 8379	665	0 22.3
15	17 49 16.23	19.09	22 12 50.8	0.8	0.955 7714	522	0 18.1
16	17 48 57.14	19.12	22 12 50.0	0.8	0.955 7192	380	0 13.8
17	17 48 38.02	19.14	22 12 49.2	0.9	0.955 6812	236	0 9.6
18	17 48 18.88	19.14	22 12 48.3	0.8	0.955 6576	93	0 5.3
19	17 47 59.74	19.15	−22 12 47.5	0.9	0.955 6483	50	{0 1.1; 23 56.8}
20	17 47 40.59	19.14	22 12 46.6	0.9	0.955 6533	193	23 52.6
21	17 47 21.45	19.12	22 12 45.7	0.8	0.955 6726	336	23 48.3
22	17 47 2.33	19.09	22 12 44.9	0.9	0.955 7062	478	23 44.1
23	17 46 43.24	19.06	22 12 44.0	0.9	0.955 7540	620	23 39.8
24	17 46 24.18	19.01	22 12 43.1	0.8	0.955 8160	763	23 35.6
25	17 46 5.17	18.95	−22 12 42.3	0.8	0.955 8923	904	23 31.3
26	17 45 46.22	18.89	22 12 41.5	0.8	0.955 9827	1046	23 27.1
27	17 45 27.33	18.81	22 12 40.7	0.7	0.956 0873	1187	23 22.8
28	17 45 8.52	18.73	22 12 40.0	0.8	0.956 2060	1327	23 18.6
29	17 44 49.79	18.64	22 12 39.2	0.8	0.956 3387	1467	23 14.4
30	17 44 31.15	18.53	22 12 38.4	0.7	0.956 4854	1607	23 10.1
Juli 1	17 44 12.62	18.42	−22 12 37.7	0.6	0.956 6461	1747	23 5.9
2	17 43 54.20	18.30	22 12 37.1	0.6	0.956 8208	1886	23 1.6
3	17 43 35.90	18.18	22 12 36.5	0.5	0.957 0094	2024	22 57.4
4	17 43 17.72	18.04	22 12 36.0	0.5	0.957 2118	2161	22 53.2
5	17 42 59.68	17.88	22 12 35.5	0.5	0.957 4279	2297	22 49.0
6	17 42 41.80	17.72	22 12 35.0	0.4	0.957 6576	2433	22 44.7
7	17 42 24.08	17.56	−22 12 34.6	0.3	0.957 9009	2566	22 40.5
8	17 42 6.52	17.38	22 12 34.3	0.2	0.958 1575	2698	22 36.3
9	17 41 49.14	17.19	22 12 34.1	0.1	0.958 4273	2830	22 32.1
10	17 41 31.95	16.99	22 12 34.0	0.1	0.958 7103	2960	22 27.9
11	17 41 14.96	16.79	22 12 33.9	0.1	0.959 0063	3088	22 23.6
12	17 40 58.17	16.58	22 12 34.0	0.2	0.959 3151	3215	22 19.4
13	17 40 41.59	16.36	−22 12 34.2	0.2	0.959 6366	3341	22 15.2
14	17 40 25.23	16.13	22 12 34.4	0.4	0.959 9707	3464	22 11.0
15	17 40 9.10	15.90	22 12 34.8	0.5	0.960 3171	3586	22 6.8
16	17 39 53.20	15.65	22 12 35.3	0.6	0.960 6757	3707	22 2.6
17	17 39 37.55	15.40	22 12 35.9	0.8	0.961 0464	3826	21 58.4
18	17 39 22.15	15.14	22 12 36.7	0.9	0.961 4290	3944	21 54.3
19	17 39 7.01	14.88	−22 12 37.6	1.0	0.961 8234	4059	21 50.1
20	17 38 52.13	14.61	22 12 38.6	1.2	0.962 2293	4172	21 45.9
21	17 38 37.52	14.33	22 12 39.8	1.4	0.962 6465	4285	21 41.8
22	17 38 23.19	14.05	22 12 41.2	1.5	0.963 0750	4395	21 37.6
23	17 38 9.14	13.76	22 12 42.7	1.7	0.963 5145	4504	21 33.4
24	17 37 55.38		−22 12 44.4		0.963 9649		21 29.3

Tag	0h Welt-Zeit Scheinbare Rektaszension		Scheinbare Deklination		log Δ		Obere Kulmination in Greenwich
1929	h m s	s	° ′ ″	″			h m
Juli 24	17 37 55.38	13.47	−22 12 44.4	1.8	0.963 9649	4610	21 29.3
25	17 37 41.91	13.17	22 12 46.2	2.0	0.964 4259	4716	21 25.1
26	17 37 28.74	12.85	22 12 48.2	2.2	0.964 8975	4819	21 21.0
27	17 37 15.89	12.54	22 12 50.4	2.4	0.965 3794	4921	21 16.8
28	17 37 3.35	12.23	22 12 52.8	2.5	0.965 8715	5022	21 12.7
29	17 36 51.12	11.90	22 12 55.3	2.7	0.966 3737	5119	21 8.6
30	17 36 39.22	11.57	−22 12 58.0	3.0	0.966 8856	5214	21 4.4
31	17 36 27.65	11.23	22 13 1.0	3.1	0.967 4070	5309	21 0.3
Aug. 1	17 36 16.42	10.89	22 13 4.1	3.4	0.967 9379	5401	20 56.2
2	17 36 5.53	10.53	22 13 7.5	3.7	0.968 4780	5492	20 52.1
3	17 35 55.00	10.19	22 13 11.2	3.8	0.969 0272	5580	20 48.0
4	17 35 44.81	9.83	22 13 15.0	4.1	0.969 5852	5666	20 43.9
5	17 35 34.98	9.47	−22 13 19.1	4.4	0.970 1518	5750	20 39.8
6	17 35 25.51	9.09	22 13 23.5	4.5	0.970 7268	5831	20 35.7
7	17 35 16.42	8.71	22 13 28.0	4.9	0.971 3099	5909	20 31.6
8	17 35 7.71	8.34	22 13 32.9	5.1	0.971 9008	5986	20 27.6
9	17 34 59.37	7.96	22 13 38.0	5.3	0.972 4994	6059	20 23.5
10	17 34 51.41	7.58	22 13 43.3	5.5	0.973 1053	6131	20 19.5
11	17 34 43.83	7.19	−22 13 48.8	5.9	0.973 7184	6200	20 15.4
12	17 34 36.64	6.79	22 13 54.7	6.1	0.974 3384	6268	20 11.4
13	17 34 29.85	6.40	22 14 0.8	6.3	0.974 9652	6333	20 7.3
14	17 34 23.45	6.01	22 14 7.1	6.5	0.975 5985	6394	20 3.3
15	17 34 17.44	5.61	22 14 13.6	6.9	0.976 2379	6454	19 59.3
16	17 34 11.83	5.21	22 14 20.5	7.2	0.976 8833	6512	19 55.3
17	17 34 6.62	4.80	−22 14 27.7	7.4	0.977 5345	6567	19 51.3
18	17 34 1.82	4.41	22 14 35.1	7.7	0.978 1912	6621	19 47.3
19	17 33 57.41	4.00	22 14 42.8	7.9	0.978 8533	6672	19 43.2
20	17 33 53.41	3.58	22 14 50.7	8.3	0.979 5205	6722	19 39.2
21	17 33 49.83	3.18	22 14 59.0	8.5	0.980 1927	6768	19 35.2
22	17 33 46.65	2.77	22 15 7.5	8.7	0.980 8695	6812	19 31.3
23	17 33 43.88	2.36	−22 15 16.2	9.1	0.981 5507	6855	19 27.3
24	17 33 41.52	1.94	22 15 25.3	9.3	0.982 2362	6895	19 23.3
25	17 33 39.58	1.52	22 15 34.6	9.5	0.982 9257	6933	19 19.4
26	17 33 38.06	1.11	22 15 44.1	9.9	0.983 6190	6969	19 15.4
27	17 33 36.95	0.69	22 15 54.0	10.1	0.984 3159	7003	19 11.5
28	17 33 36.26	0.27	22 16 4.1	10.4	0.985 0162	7035	19 7.5
29	17 33 35.99	0.15	−22 16 14.5	10.7	0.985 7197	7065	19 3.6
30	17 33 36.14	0.57	22 16 25.2	10.9	0.986 4262	7093	18 59.7
31	17 33 36.71	1.00	22 16 36.1	11.2	0.987 1355	7119	18 55.8
Sept. 1	17 33 37.71	1.41	22 16 47.3	11.5	0.987 8474	7142	18 51.9
2	17 33 39.12	1.84	22 16 58.8	11.7	0.988 5616	7164	18 48.0
3	17 33 40.96		−22 17 10.5		0.989 2780		18 44.1

Tag	0h Welt-Zeit: Scheinbare Rektaszension		Scheinbare Deklination		log Δ		Obere Kulmination in Greenwich
1929	h m s	s	° ′ ″	″			h m
Sept. 3	17 33 40.96	2.27	−22 17 10.5	12.0	0.989 2780	7182	18 44.1
4	17 33 43.23	2.69	22 17 22.5	12.3	0.989 9962	7198	18 40.2
5	17 33 45.92	3.11	22 17 34.8	12.5	0.990 7160	7212	18 36.3
6	17 33 49.03	3.54	22 17 47.3	12.7	0.991 4372	7223	18 32.4
7	17 33 52.57	3.97	22 18 0.0	13.0	0.992 1595	7232	18 28.5
8	17 33 56.54	4.39	22 18 13.0	13.3	0.992 8827	7239	18 24.7
9	17 34 0.93	4.80	−22 18 26.3	13.5	0.993 6066	7244	18 20.8
10	17 34 5.73	5.23	22 18 39.8	13.7	0.994 3310	7246	18 17.0
11	17 34 10.96	5.64	22 18 53.5	13.9	0.995 0556	7246	18 13.2
12	17 34 16.60	6.06	22 19 7.4	14.1	0.995 7802	7245	18 9.3
13	17 34 22.66	6.48	22 19 21.5	14.4	0.996 5047	7241	18 5.5
14	17 34 29.14	6.89	22 19 35.9	14.5	0.997 2288	7236	18 1.7
15	17 34 36.03	7.29	−22 19 50.4	14.8	0.997 9524	7228	17 57.9
16	17 34 43.32	7.70	22 20 5.2	14.9	0.998 6752	7220	17 54.1
17	17 34 51.02	8.12	22 20 20.1	15.2	0.999 3972	7209	17 50.3
18	17 34 59.14	8.52	22 20 35.3	15.3	1.000 1181	7196	17 46.5
19	17 35 7.66	8.92	22 20 50.6	15.4	1.000 8377	7181	17 42.7
20	17 35 16.58	9.32	22 21 6.0	15.7	1.001 5558	7165	17 38.9
21	17 35 25.90	9.73	−22 21 21.7	15.8	1.002 2723	7147	17 35.1
22	17 35 35.63	10.13	22 21 37.5	15.9	1.002 9870	7128	17 31.4
23	17 35 45.76	10.52	22 21 53.4	16.1	1.003 6998	7107	17 27.6
24	17 35 56.28	10.92	22 22 9.5	16.3	1.004 4105	7083	17 23.8
25	17 36 7.20	11.30	22 22 25.8	16.4	1.005 1188	7058	17 20.1
26	17 36 18.50	11.69	22 22 42.2	16.6	1.005 8246	7031	17 16.4
27	17 36 30.19	12.09	−22 22 58.8	16.6	1.006 5277	7004	17 12.6
28	17 36 42.28	12.48	22 23 15.4	16.8	1.007 2281	6973	17 8.9
29	17 36 54.76	12.86	22 23 32.2	16.9	1.007 9254	6941	17 5.2
30	17 37 7.62	13.24	22 23 49.1	17.0	1.008 6195	6907	17 1.5
Okt. 1	17 37 20.86	13.62	22 24 6.1	17.0	1.009 3102	6871	16 57.8
2	17 37 34.48	14.00	22 24 23.1	17.2	1.009 9973	6833	16 54.1
3	17 37 48.48	14.37	−22 24 40.3	17.2	1.010 6806	6793	16 50.4
4	17 38 2.85	14.74	22 24 57.5	17.2	1.011 3599	6753	16 46.7
5	17 38 17.59	15.11	22 25 14.7	17.2	1.012 0352	6711	16 43.0
6	17 38 32.70	15.48	22 25 31.9	17.4	1.012 7063	6666	16 39.3
7	17 38 48.18	15.83	22 25 49.3	17.3	1.013 3729	6620	16 35.6
8	17 39 4.01	16.19	22 26 6.6	17.4	1.014 0349	6573	16 32.0
9	17 39 20.20	16.54	−22 26 24.0	17.4	1.014 6922	6525	16 28.3
10	17 39 36.74	16.89	22 26 41.4	17.4	1.015 3447	6474	16 24.7
11	17 39 53.63	17.24	22 26 58.8	17.4	1.015 9921	6421	16 21.0
12	17 40 10.87	17.57	22 27 16.2	17.3	1.016 6342	6367	16 17.4
13	17 40 28.44	17.91	22 27 33.5	17.3	1.017 2709	6314	16 13.7
14	17 40 46.35		−22 27 50.8		1.017 9023		16 10.1

Tag	0h Welt-Zeit: Scheinbare Rektaszension	Diff.	0h Welt-Zeit: Scheinbare Deklination	Diff.	0h Welt-Zeit: log Δ	Diff.	Obere Kulmination in Greenwich
1929	h m s	s	° ′ ″	″			h m
Okt. 14	17 40 46.35	18.24	−22 27 50.8	17.3	1.017 9023	6258	16 10.1
15	17 41 4.59	18.58	22 28 8.1	17.3	1.018 5281	6201	16 6.5
16	17 41 23.17	18.90	22 28 25.4	17.2	1.019 1482	6142	16 2.9
17	17 41 42.07	19.22	22 28 42.6	17.1	1.019 7624	6083	15 59.3
18	17 42 1.29	19.54	22 28 59.7	17.0	1.020 3707	6023	15 55.6
19	17 42 20.83	19.85	22 29 16.7	17.0	1.020 9730	5961	15 52.0
20	17 42 40.68	20.17	−22 29 33.7	16.8	1.021 5691	5898	15 48.4
21	17 43 0.85	20.47	22 29 50.5	16.8	1.022 1589	5835	15 44.8
22	17 43 21.32	20.77	22 30 7.3	16.6	1.022 7424	5770	15 41.3
23	17 43 42.09	21.08	22 30 23.9	16.5	1.023 3194	5703	15 37.7
24	17 44 3.17	21.37	22 30 40.4	16.4	1.023 8897	5636	15 34.1
25	17 44 24.54	21.67	22 30 56.8	16.2	1.024 4533	5567	15 30.5
26	17 44 46.21	21.96	−22 31 13.0	16.0	1.025 0100	5496	15 26.9
27	17 45 8.17	22.24	22 31 29.0	16.0	1.025 5596	5425	15 23.4
28	17 45 30.41	22.52	22 31 45.0	15.8	1.026 1021	5353	15 19.8
29	17 45 52.93	22.80	22 32 0.8	15.6	1.026 6374	5281	15 16.3
30	17 46 15.73	23.08	22 32 16.4	15.4	1.027 1655	5207	15 12.7
31	17 46 38.81	23.35	22 32 31.8	15.3	1.027 6862	5130	15 9.2
Nov. 1	17 47 2.16	23.61	−22 32 47.1	15.0	1.028 1992	5053	15 5.6
2	17 47 25.77	23.86	22 33 2.1	14.8	1.028 7045	4975	15 2.1
3	17 47 49.63	24.12	22 33 16.9	14.6	1.029 2020	4895	14 58.6
4	17 48 13.75	24.37	22 33 31.5	14.3	1.029 6915	4815	14 55.0
5	17 48 38.12	24.62	22 33 45.8	14.1	1.030 1730	4734	14 51.5
6	17 49 2.74	24.86	22 33 59.9	13.9	1.030 6464	4652	14 48.0
7	17 49 27.60	25.09	−22 34 13.8	13.5	1.031 1116	4569	14 44.5
8	17 49 52.69	25.32	22 34 27.3	13.3	1.031 5685	4486	14 40.9
9	17 50 18.01	25.55	22 34 40.6	12.9	1.032 0171	4401	14 37.4
10	17 50 43.56	25.77	22 34 53.5	12.7	1.032 4572	4315	14 33.9
11	17 51 9.33	25.99	22 35 6.2	12.5	1.032 8887	4230	14 30.4
12	17 51 35.32	26.19	22 35 18.7	12.1	1.033 3117	4144	14 26.9
13	17 52 1.51	26.40	−22 35 30.8	11.8	1.033 7261	4057	14 23.4
14	17 52 27.91	26.60	22 35 42.6	11.5	1.034 1318	3969	14 20.0
15	17 52 54.51	26.80	22 35 54.1	11.1	1.034 5287	3881	14 16.5
16	17 53 21.31	27.00	22 36 5.2	10.9	1.034 9168	3792	14 13.0
17	17 53 48.31	27.18	22 36 16.1	10.5	1.035 2960	3702	14 9.5
18	17 54 15.49	27.37	22 36 26.6	10.1	1.035 6662	3612	14 6.0
19	17 54 42.86	27.54	−22 36 36.7	9.8	1.036 0274	3521	14 2.5
20	17 55 10.40	27.72	22 36 46.5	9.5	1.036 3795	3430	13 59.1
21	17 55 38.12	27.89	22 36 56.0	9.1	1.036 7225	3338	13 55.6
22	17 56 6.01	28.06	22 37 5.1	8.7	1.037 0563	3246	13 52.1
23	17 56 34.07	28.23	22 37 13.8	8.3	1.037 3809	3152	13 48.6
24	17 57 2.30		−22 37 22.1		1.037 6961		13 45.2

Tag	0h Welt-Zeit Scheinbare Rektaszension		Scheinbare Deklination		log Δ		Obere Kulmination in Greenwich
1929	h m s	s	° ′ ″	″			h m
Nov. 24	17 57 2.30	28.38	−22 37 22.1	8.0	1.037 6961	3058	13 45.2
25	17 57 30.68	28.53	22 37 30.1	7.7	1.038 0019	2963	13 41.7
26	17 57 59.21	28.68	22 37 37.8	7.3	1.038 2982	2868	13 38.3
27	17 58 27.89	28.82	22 37 45.1	6.8	1.038 5850	2772	13 34.8
28	17 58 56.71	28.96	22 37 51.9	6.3	1.038 8622	2675	13 31.4
29	17 59 25.67	29.10	22 37 58.2	6.0	1.039 1297	2578	13 27.9
30	17 59 54.77	29.23	−22 38 4.2	5.6	1.039 3875	2479	13 24.5
Dez. 1	18 0 24.00	29.35	22 38 9.8	5.2	1.039 6354	2381	13 21.0
2	18 0 53.35	29.47	22 38 15.0	4.8	1.039 8735	2283	13 17.6
3	18 1 22.82	29.57	22 38 19.8	4.4	1.040 1018	2183	13 14.1
4	18 1 52.39	29.68	22 38 24.2	3.9	1.040 3201	2084	13 10.7
5	18 2 22.07	29.78	22 38 28.1	3.5	1.040 5285	1985	13 7.3
6	18 2 51.85	29.88	−22 38 31.6	3.0	1.040 7270	1885	13 3.8
7	18 3 21.73	29.97	22 38 34.6	2.6	1.040 9155	1783	13 0.4
8	18 3 51.70	30.06	22 38 37.2	2.2	1.041 0938	1683	12 56.9
9	18 4 21.76	30.14	22 38 39.4	1.7	1.041 2621	1583	12 53.5
10	18 4 51.90	30.21	22 38 41.1	1.3	1.041 4204	1481	12 50.1
11	18 5 22.11	30.28	22 38 42.4	0.8	1.041 5685	1379	12 46.7
12	18 5 52.39	30.34	−22 38 43.2	0.4	1.041 7064	1278	12 43.2
13	18 6 22.73	30.40	22 38 43.6	0.0	1.041 8342	1178	12 39.8
14	18 6 53.13	30.46	22 38 43.6	0.5	1.041 9520	1076	12 36.4
15	18 7 23.59	30.51	22 38 43.1	0.9	1.042 0596	975	12 33.0
16	18 7 54.10	30.55	22 38 42.2	1.4	1.042 1571	873	12 29.5
17	18 8 24.65	30.60	22 38 40.8	1.9	1.042 2444	771	12 26.1
18	18 8 55.25	30.64	−22 38 38.9	2.3	1.042 3215	670	12 22.7
19	18 9 25.89	30.67	22 38 36.6	2.7	1.042 3885	567	12 19.3
20	18 9 56.56	30.69	22 38 33.9	3.2	1.042 4452	465	12 15.8
21	18 10 27.25	30.72	22 38 30.7	3.7	1.042 4917	362	12 12.4
22	18 10 57.97	30.74	22 38 27.0	4.1	1.042 5279	260	12 9.0
23	18 11 28.71	30.75	22 38 22.9	4.5	1.042 5539	156	12 5.6
24	18 11 59.46	30.76	−22 38 18.4	4.9	1.042 5695	53	12 2.1
25	18 12 30.22	30.75	22 38 13.5	5.4	1.042 5748	50	11 58.7
26	18 13 0.97	30.75	22 38 8.1	5.9	1.042 5698	154	11 55.3
27	18 13 31.72	30.75	22 38 2.2	6.3	1.042 5544	257	11 51.9
28	18 14 2.47	30.73	22 37 55.9	6.7	1.042 5287	361	11 48.4
29	18 14 33.20	30.71	22 37 49.2	7.1	1.042 4926	464	11 45.0
30	18 15 3.91	30.69	−22 37 42.1	7.6	1.042 4462	567	11 41.6
31	18 15 34.60	30.66	22 37 34.5	8.1	1.042 3895	671	11 38.2
32	18 16 5.26		−22 37 26.4		1.042 3224		11 34.7

Tag	0h Welt-Zeit Scheinbare Rektaszension		Scheinbare Deklination		log Δ		Obere Kulmination in Greenwich
1929	h m s	s	° ′ ″	′ ″			h m
Jan. 0	0 14 22.62	14.80	+0 47 0.9	1 46.4	1.303 8376	1 4732	17 34.9
4	0 14 37.42	17.71	0 48 47.3	2 5.1	1.305 3108	1 4516	17 19.4
8	0 14 55.13	20.57	0 50 52.4	2 23.5	1.306 7624	1 4234	17 4.0
12	0 15 15.70	23.34	0 53 15.9	2 41.2	1.308 1858	1 3886	16 48.6
16	0 15 39.04	26.02	0 55 57.1	2 58.2	1.309 5744	1 3471	16 33.2
20	0 16 5.06	28.57	0 58 55.3	3 14.4	1.310 9215	1 3001	16 17.9
24	0 16 33.63	31.01	+1 2 9.7	3 29.8	1.312 2216	1 2479	16 2.7
28	0 17 4.64	33.34	1 5 39.5	3 44.5	1.313 4695	1 1913	15 47.5
Febr. 1	0 17 37.98	35.55	1 9 24.0	3 58.4	1.314 6608	1 1297	15 32.3
5	0 18 13.53	37.62	1 13 22.4	4 11.4	1.315 7905	1 0633	15 17.2
9	0 18 51.15	39.57	1 17 33.8	4 23.4	1.316 8538	9925	15 2.1
13	0 19 30.72	41.35	1 21 57.2	4 34.4	1.317 8463	9180	14 47.0
17	0 20 12.07	42.97	+1 26 31.6	4 44.3	1.318 7643	8403	14 32.0
21	0 20 55.04	44.43	1 31 15.9	4 53.1	1.319 6046	7599	14 17.0
25	0 21 39.47	45.74	1 36 9.0	5 0.9	1.320 3645	6776	14 2.0
März 1	0 22 25.21	46.90	1 41 9.9	5 7.8	1.321 0421	5926	13 47.1
5	0 23 12.11	47.91	1 46 17.7	5 13.6	1.321 6347	5058	13 32.1
9	0 24 0.02	48.75	1 51 31.3	5 18.4	1.322 1405	4168	13 17.1
13	0 24 48.77	49.40	+1 56 49.7	5 22.0	1.322 5573	3265	13 2.2
17	0 25 38.17	49.89	2 2 11.7	5 24.3	1.322 8838	2355	12 47.3
21	0 26 28.06	50.21	2 7 36.0	5 25.6	1.323 1193	1445	12 32.4
25	0 27 18.27	50.38	2 13 1.6	5 25.9	1.323 2638	538	12 17.5
29	0 28 8.65	50.39	2 18 27.5	5 25.2	1.323 3176	371	12 2.6
April 2	0 28 59.04	50.24	2 23 52.7	5 23.6	1.323 2805	1280	11 47.7
6	0 29 49.28	49.92	+2 29 16.3	5 20.9	1.323 1525	2185	11 32.8
10	0 30 39.20	49.44	2 34 37.2	5 16.9	1.322 9340	3081	11 17.9
14	0 31 28.64	48.79	2 39 54.1	5 12.0	1.322 6259	3960	11 3.0
18	0 32 17.43	47.98	2 45 6.1	5 6.1	1.322 2299	4818	10 48.1
22	0 33 5.41	47.03	2 50 12.2	4 59.2	1.321 7481	5655	10 33.2
26	0 33 52.44	45.95	2 55 11.4	4 51.6	1.321 1826	6474	10 18.2
30	0 34 38.39	44.71	+3 0 3.0	4 43.0	1.320 5352	7270	10 3.3
Mai 4	0 35 23.10	43.34	3 4 46.0	4 33.6	1.319 8082	8044	9 48.3
8	0 36 6.44	41.81	3 9 19.6	4 23.2	1.319 0038	8787	9 33.3
12	0 36 48.25	40.13	3 13 42.8	4 11.8	1.318 1251	9495	9 18.2
16	0 37 28.38	38.33	3 17 54.6	3 59.6	1.317 1756	1 0164	9 3.2
20	0 38 6.71	36.42	3 21 54.2	3 46.9	1.316 1592	1 0792	8 48.1
24	0 38 43.13	34.39	+3 25 41.1	3 33.5	1.315 0800	1 1381	8 32.9
28	0 39 17.52	32.25	3 29 14.6	3 19.4	1.313 9419	1 1935	8 17.8
Juni 1	0 39 49.77	30.01	3 32 34.0	3 4.6	1.312 7484	1 2444	8 2.6
5	0 40 19.78	27.64	3 35 38.6	2 49.2	1.311 5040	1 2906	7 47.3
9	0 40 47.42	25.18	3 38 27.8	2 33.1	1.310 2134	1 3314	7 32.0
13	0 41 12.60		+3 41 0.9		1.308 8820		7 16.7

Uranus 1929

Tag	0h Welt-Zeit Scheinbare Rektaszension		Scheinbare Deklination		log Δ		Obere Kulmination in Greenwich
1929	h m s	s	° ′ ″	′ ″			h m
Juni 13	0 41 12.60	22.63	+3 41 0.9	2 16.5	1.308 8820	1 3664	7 16.7
17	0 41 35.23	20.02	3 43 17.4	1 59.6	1.307 5156	1 3960	7 1.4
21	0 41 55.25	17.34	3 45 17.0	1 42.5	1.306 1196	1 4199	6 46.0
25	0 42 12.59	14.62	3 46 59.5	1 25.0	1.304 6997	1 4387	6 30.5
29	0 42 27.21	11.84	3 48 24.5	1 7.1	1.303 2610	1 4516	6 15.0
Juli 3	0 42 39.05	9.00	3 49 31.6	0 49.0	1.301 8094	1 4580	5 59.5
7	0 42 48.05	6.12	+3 50 20.6	0 30.6	1.300 3514	1 4577	5 43.9
11	0 42 54.17	3.24	3 50 51.2	0 12.4	1.298 8937	1 4504	5 28.3
15	0 42 57.41	0.38	3 51 3.6	0 5.8	1.297 4433	1 4365	5 12.6
19	0 42 57.79	2.47	3 50 57.8	0 23.8	1.296 0068	1 4161	4 56.9
23	0 42 55.32	5.29	3 50 34.0	0 41.5	1.294 5907	1 3895	4 41.1
27	0 42 50.03	8.09	3 49 52.5	0 59.1	1.293 2012	1 3562	4 25.3
31	0 42 41.94	10.85	+3 48 53.4	1 16.5	1.291 8450	1 3159	4 9.5
Aug. 4	0 42 31.09	13.53	3 47 36.9	1 33.3	1.290 5291	1 2686	3 53.6
8	0 42 17.56	16.13	3 46 3.6	1 49.5	1.289 2605	1 2143	3 37.6
12	0 42 1.43	18.61	3 44 14.1	2 4.9	1.288 0462	1 1535	3 21.6
16	0 41 42.82	20.98	3 42 9.2	2 19.7	1.286 8927	1 0865	3 5.6
20	0 41 21.84	23.22	3 39 49.5	2 33.5	1.285 8062	1 0142	2 49.5
24	0 40 58.62	25.32	+3 37 16.0	2 46.4	1.284 7920	9363	2 33.4
28	0 40 33.30	27.27	3 34 29.6	2 58.4	1.283 8557	8525	2 17.3
Sept. 1	0 40 6.03	29.06	3 31 31.2	3 9.4	1.283 0032	7630	2 1.1
5	0 39 36.97	30.66	3 28 21.8	3 19.0	1.282 2402	6688	1 44.9
9	0 39 6.31	32.03	3 25 2.8	3 27.3	1.281 5714	5705	1 28.6
13	0 38 34.28	33.20	3 21 35.5	3 34.2	1.281 0009	4689	1 12.4
17	0 38 1.08	34.15	+3 18 1.3	3 39.6	1.280 5320	3645	0 56.1
21	0 37 26.93	34.89	3 14 21.7	3 43.8	1.280 1675	2577	0 39.8
25	0 36 52.04	35.41	3 10 37.9	3 46.6	1.279 9098	1489	0 23.5
29	0 36 16.63	35.68	3 6 51.3	3 47.7	1.279 7609	382	0 7.2
Okt. 3	0 35 40.95	35.71	3 3 3.6	3 47.2	1.279 7227	734	23 46.8
7	0 35 5.24	35.47	2 59 16.4	3 45.1	1.279 7961	1847	23 30.5
11	0 34 29.77	34.99	+2 55 31.3	3 41.4	1.279 9808	2949	23 14.2
15	0 33 54.78	34.28	2 51 49.9	3 36.2	1.280 2757	4030	22 57.9
19	0 33 20.50	33.34	2 48 13.7	3 29.6	1.280 6787	5087	22 41.6
23	0 32 47.16	32.18	2 44 44.1	3 21.6	1.281 1874	6125	22 25.3
27	0 32 14.98	30.79	2 41 22.5	3 12.1	1.281 7999	7133	22 9.0
31	0 31 44.19	29.18	2 38 10.4	3 1.2	1.282 5132	8100	21 52.8
Nov. 4	0 31 15.01	27.34	+2 35 9.2	2 48.9	1.283 3232	9018	21 36.6
8	0 30 47.67	25.32	2 32 20.3	2 35.4	1.284 2250	9881	21 20.4
12	0 30 22.35	23.13	2 29 44.9	2 20.8	1.285 2131	1 0684	21 4.3
16	0 29 59.22	20.80	2 27 24.1	2 5.4	1.286 2815	1 1425	20 48.2
20	0 29 38.42	18.31	2 25 18.7	1 49.0	1.287 4240	1 2105	20 32.1
24	0 29 20.11		+2 23 29.7		1.288 6345		20 16.1

Tag	0ʰ Welt-Zeit: Scheinbare Rektaszension	Diff.	0ʰ Welt-Zeit: Scheinbare Deklination	Diff.	0ʰ Welt-Zeit: log Δ	Diff.	Obere Kulmination in Greenwich
1929	h m s	s	° ′ ″	′ ″			h m
Nov. 24	0 29 20.11		+2 23 29.7		1.288 6345		20 16.1
		15.69		1 31.8		1 2726	
28	0 29 4.42		2 21 57.9		1.289 9071		20 0.1
		12.95		1 13.8		1 3273	
Dez. 2	0 28 51.47		2 20 44.1		1.291 2344		19 44.2
		10.10		0 55.2		1 3745	
6	0 28 41.37		2 19 48.9		1.292 6089		19 28.3
		7.17		0 36.2		1 4139	
10	0 28 34.20		2 19 12.7		1.294 0228		19 12.5
		4.19		0 16.8		1 4454	
14	0 28 30.01		2 18 55.9		1.295 4682		18 56.7
		1.19		0 2.8		1 4692	
18	0 28 28.82		+2 18 58.7		1.296 9374		18 40.9
		1.85		0 22.3		1 4859	
22	0 28 30.67		2 19 21.0		1.298 4233		18 25.2
		4.89		0 41.9		1 4956	
26	0 28 35.56		2 20 2.9		1.299 9189		18 9.6
		7.94		1 1.6		1 4978	
30	0 28 43.50		2 21 4.5		1.301 4167		17 54.0
		10.99		1 21.2		1 4923	
34	0 28 54.49		+2 22 25.7		1.302 9090		17 38.5

Tag	0ʰ Welt-Zeit: Scheinbare Rektaszension	Diff.	Scheinbare Deklination	Diff.	log Δ	Diff.	Obere Kulmination in Greenwich
1929	h m s	s	° ′ ″	′ ″			h m
Jan. 0	10 13 43.48	14.15	+11 36 8.9	1 26.0	1.470 1174	7830	3 36.5
4	10 13 29.33	15.85	11 37 34.9	1 35.2	1.469 3344	7357	3 20.5
8	10 13 13.48	17.43	11 39 10.1	1 43.7	1.468 5987	6840	3 4.5
12	10 12 56.05	18.90	11 40 53.8	1 51.6	1.467 9147	6281	2 48.5
16	10 12 37.15	20.24	11 42 45.4	1 58.7	1.467 2866	5688	2 32.4
20	10 12 16.91	21.44	11 44 44.1	2 5.0	1.466 7178	5063	2 16.4
24	10 11 55.47	22.51	+11 46 49.1	2 10.4	1.466 2115	4415	2 0.3
28	10 11 32.96	23.43	11 48 59.5	2 15.0	1.465 7700	3744	1 44.2
Febr. 1	10 11 9.53	24.20	11 51 14.5	2 18.8	1.465 3956	3049	1 28.0
5	10 10 45.33	24.82	11 53 33.3	2 21.7	1.465 0907	2333	1 11.9
9	10 10 20.51	25.28	11 55 55.0	2 23.7	1.464 8574	1602	0 55.8
13	10 9 55.23	25.55	11 58 18.7	2 24.7	1.464 6972	866	0 39.6
17	10 9 29.68	25.65	+12 0 43.4	2 24.7	1.464 6106	131	0 23.5
21	10 9 4.03	25.59	12 3 8.1	2 23.7	1.464 5975	602	0 7.3
25	10 8 38.44	25.38	12 5 31.8	2 22.0	1.464 6577	1329	23 47.2
März 1	10 8 13.06	25.01	12 7 53.8	2 19.4	1.464 7906	2051	23 31.0
5	10 7 48.05	24.48	12 10 13.2	2 15.9	1.464 9957	2759	23 14.9
9	10 7 23.57	23.78	12 12 29.1	2 11.5	1.465 2716	3450	22 58.7
13	10 6 59.79	22.92	+12 14 40.6	2 6.3	1.465 6166	4121	22 42.6
17	10 6 36.87	21.92	12 16 46.9	2 0.4	1.466 0287	4761	22 26.5
21	10 6 14.95	20.80	12 18 47.3	1 53.7	1.466 5048	5372	22 10.4
25	10 5 54.15	19.54	12 20 41.0	1 46.4	1.467 0420	5950	21 54.4
29	10 5 34.61	18.17	12 22 27.4	1 38.6	1.467 6370	6496	21 38.3
April 2	10 5 16.44	16.70	12 24 6.0	1 30.2	1.468 2866	7007	21 22.3
6	10 4 59.74	15.12	+12 25 36.2	1 21.1	1.468 9873	7480	21 6.3
10	10 4 44.62	13.44	12 26 57.3	1 11.7	1.469 7353	7913	20 50.3
14	10 4 31.18	11.66	12 28 9.0	1 1.9	1.470 5266	8298	20 34.4
18	10 4 19.52	9.83	12 29 10.9	0 51.7	1.471 3564	8636	20 18.5
22	10 4 9.69	7.97	12 30 2.6	0 41.3	1.472 2200	8931	20 2.6
26	10 4 1.72	6.05	12 30 43.9	0 30.7	1.473 1131	9185	19 46.7
30	10 3 55.67	4.08	+12 31 14.6	0 19.9	1.474 0316	9392	19 30.9
Mai 4	10 3 51.59	2.08	12 31 34.5	0 9.0	1.474 9708	9557	19 15.1
8	10 3 49.51	0.07	12 31 43.5	0 2.1	1.475 9265	9675	18 59.4
12	10 3 49.44	1.96	12 31 41.4	0 13.1	1.476 8940	9741	18 43.7
16	10 3 51.40	3.98	12 31 28.3	0 24.1	1.477 8681	9760	18 28.0
20	10 3 55.38	5.98	12 31 4.2	0 35.0	1.478 8441	9738	18 12.3
24	10 4 1.36	7.95	+12 30 29.2	0 45.7	1.479 8179	9674	17 56.7
28	10 4 9.31	9.90	12 29 43.5	0 56.3	1.480 7853	9570	17 41.1
Juni 1	10 4 19.21	11.82	12 28 47.2	1 6.6	1.481 7423	9426	17 25.5
5	10 4 31.03	13.71	12 27 40.6	1 16.8	1.482 6849	9240	17 10.0
9	10 4 44.74	15.55	12 26 23.8	1 26.8	1.483 6089	9012	16 54.5
13	10 5 0.29		+12 24 57.0		1.484 5101		16 39.0

Tag		0h Welt-Zeit Scheinbare Rektaszension		Scheinbare Deklination		log Δ		Obere Kulmination in Greenwich
1929		h m s	s	° ′ ″	′ ″			h m
Juni	13	10 5 0.29	17.31	+12 24 57.0	1 36.4	1.484 5101	8746	16 39.0
	17	10 5 17.60	19.00	12 23 20.6	1 45.6	1.485 3847	8445	16 23.6
	21	10 5 36.60	20.63	12 21 35.0	1 54.4	1.486 2292	8114	16 8.2
	25	10 5 57.23	22.19	12 19 40.6	2 2.8	1.487 0406	7754	15 52.8
	29	10 6 19.42	23.67	12 17 37.8	2 10.9	1.487 8160	7362	15 37.5
Juli	3	10 6 43.09	25.07	12 15 26.9	2 18.6	1.488 5522	6940	15 22.1
	7	10 7 8.16	26.39	+12 13 8.3	2 25.7	1.489 2462	6486	15 6.8
	11	10 7 34.55	27.60	12 10 42.6	2 32.3	1.489 8948	6009	14 51.5
	15	10 8 2.15	28.71	12 8 10.3	2 38.4	1.490 4957	5510	14 36.3
	19	10 8 30.86	29.72	12 5 31.9	2 43.9	1.491 0467	4993	14 21.0
	23	10 9 0.58	30.63	12 2 48.0	2 48.9	1.491 5460	4460	14 5.8
	27	10 9 31.21	31.45	11 59 59.1	2 53.4	1.491 9920	3906	13 50.6
	31	10 10 2.66	32.17	+11 57 5.7	2 57.3	1.492 3826	3337	13 35.4
Aug.	4	10 10 34.83	32.76	11 54 8.4	3 0.7	1.492 7163	2751	13 20.2
	8	10 11 7.59	33.24	11 51 7.7	3 3.3	1.492 9914	2156	13 5.0
	12	10 11 40.83	33.60	11 48 4.4	3 5.3	1.493 2070	1550	12 49.8
	16	10 12 14.43	33.85	11 44 59.1	3 6.7	1.493 3620	942	12 34.7
	20	10 12 48.28	33.99	11 41 52.4	3 7.4	1.493 4562	331	12 19.5
	24	10 13 22.27	34.02	+11 38 45.0	3 7.6	1.493 4893	283	12 4.3
	28	10 13 56.29	33.94	11 35 37.4	3 7.1	1.493 4610	903	11 49.2
Sept.	1	10 14 30.23	33.73	11 32 30.3	3 5.9	1.493 3707	1523	11 34.0
	5	10 15 3.96	33.40	11 29 24.4	3 4.0	1.493 2184	2138	11 18.8
	9	10 15 37.36	32.96	11 26 20.4	3 1.5	1.493 0046	2743	11 3.6
	13	10 16 10.32	32.39	11 23 18.9	2 58.3	1.492 7303	3338	10 48.5
	17	10 16 42.71	31.71	+11 20 20.6	2 54.4	1.492 3965	3922	10 33.3
	21	10 17 14.42	30.93	11 17 26.2	2 49.9	1.492 0043	4493	10 18.1
	25	10 17 45.35	30.04	11 14 36.3	2 44.8	1.491 5550	5053	10 2.9
	29	10 18 15.39	29.04	11 11 51.5	2 39.1	1.491 0497	5597	9 47.6
Okt.	3	10 18 44.43	27.91	11 9 12.4	2 32.6	1.490 4900	6119	9 32.4
	7	10 19 12.34	26.68	11 6 39.8	2 25.5	1.489 8781	6616	9 17.1
	11	10 19 39.02	25.35	+11 4 14.3	2 17.8	1.489 2165	7087	9 1.8
	15	10 20 4.37	23.93	11 1 56.5	2 9.7	1.488 5078	7527	8 46.5
	19	10 20 28.30	22.42	10 59 46.8	2 1.0	1.487 7551	7940	8 31.2
	23	10 20 50.72	20.83	10 57 45.8	1 51.8	1.486 9611	8323	8 15.8
	27	10 21 11.55	19.15	10 55 54.0	1 42.1	1.486 1288	8675	8 0.4
	31	10 21 30.70	17.38	10 54 11.9	1 31.8	1.485 2613	8987	7 45.0
Nov.	4	10 21 48.08	15.53	+10 52 40.1	1 21.2	1.484 3626	9261	7 29.6
	8	10 22 3.61	13.63	10 51 18.9	1 10.2	1.483 4365	9489	7 14.1
	12	10 22 17.24	11.68	10 50 8.7	0 58.9	1.482 4876	9673	6 58.6
	16	10 22 28.92	9.69	10 49 9.8	0 47.5	1.481 5203	9817	6 43.1
	20	10 22 38.61	7.66	10 48 22.3	0 35.8	1.480 5386	9916	6 27.5
	24	10 22 46.27		+10 47 46.5		1.479 5470		6 11.9

Tag	0h Welt-Zeit						Obere Kulmination in Greenwich
	Scheinbare Rektaszension		Scheinbare Deklination		log Δ		
1929	h m s	s	° ′ ″	′ ″			h m
Nov. 24	10 22 46.27	5.60	+10 47 46.5	0 23.9	1.479 5470	9970	6 11.9
28	10 22 51.87	3.50	10 47 22.6	0 11.8	1.478 5500	9973	5 56.3
Dez. 2	10 22 55.37	1.40	10 47 10.8	0 0.2	1.477 5527	9928	5 40.6
6	10 22 56.77	0.69	10 47 11.0	0 12.2	1.476 5599	9827	5 24.9
10	10 22 56.08	2.77	10 47 23.2	0 24.1	1.475 5772	9676	5 9.1
14	10 22 53.31	4.82	10 47 47.3	0 35.7	1.474 6096	9476	4 53.3
18	10 22 48.49	6.82	+10 48 23.0	0 47.2	1.473 6620	9231	4 37.5
22	10 22 41.67	8.79	10 49 10.2	0 58.3	1.472 7389	8938	4 21.7
26	10 22 32.88	10.72	10 50 8.5	1 9.0	1.471 8451	8596	4 5.8
30	10 22 22.16	12.56	10 51 17.5	1 19.4	1.470 9855	8200	3 49.9
34	10 22 9.60		+10 52 36.9		1.470 1655		3 34.0

Mittleres Äquinoktium 1925.0

MERKUR 1929

0h Welt-Zeit	log r	Helioz. Länge	Red. a. d. Bahn	Helioz. Breite	0h Welt-Zeit	log r	Helioz. Länge	Red. a. d. Bahn	Helioz. Breite
1929		° ′	′	° ′	1929		° ′	′	° ′
Jan. −3	9.6462	293 47	+ 9	−6 25	Juli 1	9.6039	324 22	− 3	−6 57
+2	9.6255	309 54	+ 3	−6 56	6	9.5722	344 28	−10	−6 15
7	9.5983	327 55	− 5	−6 53	11	9.5378	7 49	−13	−4 29
12	9.5658	348 35	−11	−6 0	16	9.5069	34 53	− 5	−1 32
17	9.5314	12 37	−12	−4 1	21	9.4892	65 10	+ 7	+2 9
22	9.5022	40 22	− 3	−0 52	26	9.4926	96 39	+13	+5 19
27	9.4881	71 4	+ 9	+2 49	31	9.5154	126 25	+ 5	+6 53
Febr. 1	9.4956	102 26	+12	+5 45	Aug. 5	9.5483	152 36	− 6	+6 46
6	9.5211	131 38	+ 3	+6 58	10	9.5823	174 55	−12	+5 34
11	9.5548	157 4	− 8	+6 36	15	9.6125	194 3	−12	+3 52
16	9.5884	178 44	−13	+5 16	20	9.6366	210 51	− 7	+2 1
21	9.6175	197 21	−11	+3 31	25	9.6540	226 4	− 1	+0 10
26	9.6403	213 48	− 6	+1 40	30	9.6648	240 20	+ 6	−1 34
März 3	9.6565	228 48	+ 1	−0 10	Sept. 4	9.6690	254 8	+10	−3 10
8	9.6661	242 57	+ 7	−1 53	9	9.6667	267 55	+13	−4 34
13	9.6690	256 43	+11	−3 26	14	9.6578	282 6	+12	−5 43
18	9.6655	270 32	+13	−4 48	19	9.6423	297 10	+ 8	−6 34
23	9.6554	284 51	+12	−5 55	24	9.6201	313 39	+ 2	−6 59
28	9.6386	300 8	+ 7	−6 41	29	9.5916	332 11	− 6	−6 46
April 2	9.6152	316 57	0	−7 0	Okt. 4	9.5583	353 31	−12	−5 40
7	9.5856	335 57	− 7	−6 39	9	9.5243	18 22	−11	−3 25
12	9.5518	357 54	−13	−5 20	14	9.4975	46 53	0	−0 4
17	9.5184	23 27	−10	−2 52	19	9.4879	77 58	+11	+3 34
22	9.4941	52 35	+ 2	+0 38	24	9.4999	109 5	+11	+6 10
27	9.4885	83 54	+12	+4 11	29	9.5281	137 32	0	+7 0
Mai 2	9.5043	114 42	+ 9	+6 28	Nov. 3	9.5623	162 6	−10	+6 22
7	9.5343	142 27	− 2	+6 59	8	9.5952	183 1	−13	+4 55
12	9.5688	166 17	−11	+6 8	13	9.6230	201 6	−10	+3 7
17	9.6009	186 36	−13	+4 35	18	9.6445	217 11	− 5	+1 15
22	9.6276	204 15	− 9	+2 46	23	9.6592	231 57	+ 2	−0 33
27	9.6477	220 2	− 3	+0 54	28	9.6673	245 58	+ 8	−2 14
Juni 1	9.6612	234 37	+ 3	−0 53	Dez. 3	9.6688	259 43	+12	−3 45
6	9.6680	248 33	+ 9	−2 32	8	9.6638	273 36	+13	−5 4
11	9.6684	262 18	+12	−4 1	13	9.6523	288 5	+11	−6 7
16	9.6622	276 16	+13	−5 17	18	9.6341	303 39	+ 6	−6 48
21	9.6494	290 55	+10	−6 16	23	9.6092	320 53	− 2	−6 59
26	9.6299	306 45	+ 5	−6 53	28	9.5785	340 28	− 9	−6 27
Juli 1	9.6039	324 22	− 3	−6 57	33	9.5442	3 10	−13	−4 54

$\Omega = 47^\circ\ 26'.5\ ;\quad i = 7^\circ\ 0'.20\ ;\quad m = \frac{1}{6\,000\,000}$

Mittleres Äquinoktium 1925.0

0h Welt-Zeit	log r	Helioz. Länge	Red. a. d. Bahn	Helioz. Breite	log r	Helioz. Länge	Red. a. d. Bahn	Helioz. Breite
	VENUS 1929				**MARS 1929**			
1929		° ′	′	° ′		° ′	′	° ′
Jan. −8	9.86043	18 35.3	−2.7	−2 51.6	0.19686	90 7.5	+0.9	+1 13.1
+2	9.85963	34 33.7	−3.0	−2 14.8	0.20004	94 58.8	+0.9	+1 19.9
12	9.85881	50 34.8	−2.3	−1 27.5	0.20304	99 46.1	+0.9	+1 26.0
22	9.85803	66 38.8	−1.0	−0 33.1	0.20586	104 29.6	+0.8	+1 31.5
Febr. 1	9.85734	82 45.8	+0.7	+0 24.0	0.20847	109 9.6	+0.8	+1 36.3
11	9.85682	98 55.7	+2.2	+1 19.4	0.21086	113 46.4	+0.7	+1 40.4
21	9.85649	115 8.2	+3.0	+2 8.6	0.21304	118 20.3	+0.6	+1 43.9
März 3	9.85638	131 22.6	+2.8	+2 47.6	0.21498	122 51.6	+0.5	+1 46.6
13	9.85651	147 37.9	+1.8	+3 13.3	0.21668	127 20.7	+0.4	+1 48.7
23	9.85686	163 52.6	+0.2	+3 23.5	0.21814	131 47.9	+0.2	+1 50.1
April 2	9.85740	180 5.4	−1.4	+3 17.5	0.21935	136 13.4	+0.1	+1 50.9
12	9.85810	196 15.0	−2.6	+2 55.9	0.22031	140 37.6	−0.1	+1 50.9
22	9.85889	212 20.4	−3.0	+2 20.6	0.22101	145 0.8	−0.2	+1 50.4
Mai 2	9.85972	228 21.3	−2.5	+1 34.5	0.22145	149 23.3	−0.3	+1 49.2
12	9.86051	244 17.8	−1.2	+0 41.3	0.22163	153 45.4	−0.4	+1 47.3
22	9.86121	260 10.7	+0.4	−0 14.9	0.22156	158 7.4	−0.6	+1 44.8
Juni 1	9.86177	276 0.9	+1.9	−1 9.8	0.22122	162 29.6	−0.7	+1 41.8
11	9.86214	291 49.7	+2.9	−1 59.3	0.22063	166 52.4	−0.7	+1 38.1
21	9.86229	307 38.1	+2.9	−2 39.8	0.21978	171 16.1	−0.8	+1 33.8
Juli 1	9.86222	323 27.3	+2.1	−3 8.1	0.21867	175 41.0	−0.9	+1 29.0
11	9.86193	339 17.9	+0.7	−3 22.2	0.21732	180 7.3	−0.9	+1 23.6
21	9.86144	355 10.4	−0.9	−3 21.0	0.21572	184 35.4	−0.9	+1 17.6
31	9.86078	11 5.1	−2.3	−3 4.4	0.21388	189 5.6	−0.9	+1 11.2
Aug. 10	9.86001	27 2.3	−3.0	−2 33.6	0.21180	193 38.3	−0.8	+1 4.2
20	9.85919	43 2.2	−2.8	−1 50.8	0.20949	198 13.7	−0.8	+0 56.7
30	9.85837	59 4.9	−1.7	−0 59.3	0.20697	202 52.2	−0.7	+0 48.8
Sept. 9	9.85763	75 10.5	−0.1	−0 2.9	0.20425	207 34.0	−0.6	+0 40.5
19	9.85702	91 19.1	+1.5	+0 53.9	0.20132	212 19.5	−0.5	+0 31.8
29	9.85659	107 30.6	+2.7	+1 46.5	0.19822	217 9.0	−0.4	+0 22.7
Okt. 9	9.85638	123 44.3	+3.0	+2 30.8	0.19495	222 2.8	−0.2	+0 13.4
19	9.85640	139 59.4	+2.4	+3 3.1	0.19154	227 1.1	−0.1	+0 3.8
29	9.85665	156 14.7	+1.0	+3 20.7	0.18800	232 4.2	+0.1	−0 6.0
Nov. 8	9.85711	172 28.6	−0.7	+3 22.3	0.18437	237 12.4	+0.3	−0 15.9
18	9.85775	188 39.9	−2.1	+3 7.9	0.18066	242 25.9	+0.4	−0 25.8
28	9.85851	204 47.3	−2.9	+2 38.8	0.17690	247 44.8	+0.5	−0 35.7
Dez. 8	9.85933	220 50.4	−2.8	+1 57.3	0.17313	253 9.3	+0.7	−0 45.5
18	9.86014	236 48.9	−1.9	+1 6.9	0.16938	258 39.5	+0.8	−0 55.0
28	9.86090	252 43.3	−0.3	+0 11.6	0.16570	264 15.4	+0.8	−1 4.1
38	9.86153	268 34.6	+1.3	−0 44.4	0.16211	269 57.1	+0.9	−1 12.8

Venus: $\Omega = 76^\circ\ 0'.3$; $i = 3^\circ\ 23'.63$; $m = \frac{1}{408000}$

Mars: $\Omega = 48^\circ\ 58'.7$; $i = 1^\circ\ 51'.01$; $m = \frac{1}{3093500}$

Mittleres Äquinoktium 1925.0

0h Welt-Zeit	log R	Länge	log r	Heliozentr. Länge	Red. auf d. Bahn	Heliozentr. Breite
	ERDE 1929		JUPITER 1929			
1929		° ′		° ′ ″	″	° ′ ″
Jan. − 8	9.99280	90 53.0	0.696718	40 18 11.8	−23.5	−1 7 35.0
+ 2	9.99268	101 4.5	0.696859	41 12 40.0	−23.9	−1 6 56.5
12	9.99278	111 15.9	0.697005	42 7 6.0	−24.3	−1 6 17.0
22	9.99310	121 26.8	0.697155	43 1 29.7	−24.6	−1 5 36.6
Febr. 1	9.99363	131 36.5	0.697309	43 55 51.2	−25.0	−1 4 55.2
11	9.99436	141 44.4	0.697468	44 50 10.3	−25.3	−1 4 12.9
21	9.99525	151 50.0	0.697631	45 44 26.9	−25.6	−1 3 29.6
März 3	9.99629	161 53.0	0.697798	46 38 41.1	−25.8	−1 2 45.3
13	9.99743	171 52.9	0.697969	47 32 52.7	−26.0	−1 2 0.2
23	9.99864	181 49.6	0.698144	48 27 1.6	−26.2	−1 1 14.2
April 2	9.99989	191 42.8	0.698324	49 21 7.8	−26.4	−1 0 27.4
12	0.00113	201 32.8	0.698508	50 15 11.3	−26.5	−0 59 39.7
22	0.00233	211 19.4	0.698695	51 9 12.0	−26.6	−0 58 51.1
Mai 2	0.00345	221 2.8	0.698887	52 3 9.9	−26.7	−0 58 1.7
12	0.00448	230 43.4	0.699082	52 57 4.8	−26.7	−0 57 11.5
22	0.00536	240 21.4	0.699282	53 50 56.8	−26.8	−0 56 20.6
Juni 1	0.00610	249 57.2	0.699485	54 44 45.8	−26.8	−0 55 28.8
11	0.00665	259 31.4	0.699691	55 38 31.7	−26.8	−0 54 36.3
21	0.00702	269 4.3	0.699902	56 32 14.4	−26.7	−0 53 43.1
Juli 1	0.00719	278 36.5	0.700116	57 25 54.0	−26.7	−0 52 49.1
11	0.00715	288 8.5	0.700333	58 19 30.4	−26.6	−0 51 54.3
21	0.00691	297 40.9	0.700554	59 13 3.6	−26.5	−0 50 58.8
31	0.00648	307 14.2	0.700778	60 6 33.5	−26.4	−0 50 2.6
Aug. 10	0.00585	316 48.9	0.701006	60 59 59.9	−26.2	−0 49 5.8
20	0.00506	326 25.5	0.701237	61 53 23.0	−26.0	−0 48 8.4
30	0.00413	336 4.3	0.701471	62 46 42.6	−25.8	−0 47 10.4
Sept. 9	0.00306	345 45.9	0.701708	63 39 58.7	−25.6	−0 46 11.7
19	0.00190	355 30.4	0.701948	64 33 11.3	−25.3	−0 45 12.4
29	0.00068	5 18.2	0.702191	65 26 20.3	−25.0	−0 44 12.5
Okt. 9	9.99943	15 9.3	0.702438	66 19 25.7	−24.7	−0 43 12.0
19	9.99820	25 3.8	0.702687	67 12 27.5	−24.4	−0 42 11.0
29	9.99701	35 1.7	0.702939	68 5 25.5	−24.0	−0 41 9.4
Nov. 8	9.99590	45 2.7	0.703193	68 58 19.9	−23.6	−0 40 7.3
18	9.99491	55 6.7	0.703450	69 51 10.5	−23.2	−0 39 4.8
28	9.99408	65 13.2	0.703709	70 43 57.3	−22.8	−0 38 1.9
Dez. 8	9.99342	75 21.8	0.703972	71 36 40.3	−22.3	−0 36 58.4
18	9.99296	85 32.0	0.704237	72 29 19.3	−21.8	−0 35 54.5
28	9.99272	95 43.2	0.704505	73 21 54.5	−21.3	−0 34 50.1
38	9.99270	105 54.7	0.704774	74 14 25.8	−20.8	−0 33 45.4
	$m = \frac{1}{329\,390}$		$\Omega = 99°\,41'\,52''.2;\; i = 1°\,18'\,26''.4;\; m = \frac{1}{1047.35}$			

Mittleres Äquinoktium 1925.0

SATURN 1929

0h Welt-Zeit	log r	Heliozentr. Länge	Red. auf die Bahn	Heliozentr. Breite
1928 Dez. 3	1.001634	261° 11′ 53″.1	−1′ 27″.2	+1° 18′ 47″.0
1929 Jan. 12	1.001719	262 24 12.0	−1 25.4	+1 16 5.8
Febr. 21	1.001795	263 36 28.8	−1 23.4	+1 13 22.6
April 2	1.001859	264 48 43.8	−1 21.2	+1 10 37.5
Mai 12	1.001913	266 0 57.2	−1 18.9	+1 7 50.5
Juni 21	1.001957	267 13 9.5	−1 16.4	+1 5 1.7
Juli 31	1.001990	268 25 20.7	−1 13.8	+1 2 11.3
Sept. 9	1.002011	269 37 31.0	−1 11.1	+0 59 19.3
Okt. 19	1.002023	270 49 40.6	−1 8.2	+0 56 25.7
1929 Nov. 28	1.002024	272 1 49.8	−1 5.2	+0 53 30.6
1930 Jan. 7	1.002014	273 13 58.9	−1 2.1	+0 50 34.1

$\Omega = 113° \ 0' \ 20''.6; \quad i = 2° \ 29' \ 28''.7; \quad m = \frac{1}{3501.6}$

URANUS 1929

0h Welt-Zeit	log r	Heliozentr. Länge	Red. auf die Bahn	Heliozentr. Breite
1928 Dez. 3	1.302360	6° 3′ 19″.4	−6″.6	−0° 42′ 52″.1
1929 Jan. 12	1.302312	6 29 6.8	−6.7	−0 42 44.1
Febr. 21	1.302262	6 54 54.4	−6.8	−0 42 36.0
April 2	1.302211	7 20 42.2	−6.9	−0 42 27.7
Mai 12	1.302159	7 46 30.2	−7.0	−0 42 19.2
Juni 21	1.302105	8 12 18.5	−7.1	−0 42 10.6
Juli 31	1.302050	8 38 7.1	−7.2	−0 42 1.9
Sept. 9	1.301994	9 3 56.0	−7.3	−0 41 53.0
Okt. 19	1.301936	9 29 45.1	−7.4	−0 41 43.9
1929 Nov. 28	1.301877	9 55 34.5	−7.5	−0 41 34.7
1930 Jan. 7	1.301817	10 21 24.1	−7.5	−0 41 25.3

$\Omega = 73° \ 37'; \quad i = 0° \ 46' \ 22''; \quad m = \frac{1}{22869}$

NEPTUN 1929

0h Welt-Zeit	log r	Heliozentr. Länge	Red. auf die Bahn	Heliozentr. Breite
1928 Dez. 3	1.479046	149° 29′ 13″.7	+29″.9	+0° 33′ 54″.2
1929 Jan. 12	1.479064	149 43 30.0	+30.2	+0 34 19.4
Febr. 21	1.479082	149 57 46.4	+30.6	+0 34 44.5
April 2	1.479100	150 12 2.8	+30.9	+0 35 9.6
Mai 12	1.479118	150 26 19.3	+31.2	+0 35 34.7
Juni 21	1.479136	150 40 35.8	+31.5	+0 35 59.8
Juli 31	1.479154	150 54 52.4	+31.8	+0 36 24.9
Sept. 9	1.479172	151 9 9.0	+32.2	+0 36 49.9
Okt. 19	1.479190	151 23 25.6	+32.5	+0 37 14.9
1929 Nov. 28	1.479208	151 37 42.4	+32.8	+0 37 39.8
1930 Jan. 7	1.479227	151 51 59.1	+33.1	+0 38 4.6

$\Omega = 130° \ 57'; \quad i = 1° \ 46' \ 37''; \quad m = \frac{1}{19314}$

Mittlere und Scheinbare Sternörter 1929

Reduktionsgrößen

Mittlere Sternörter 1929.0

Nr.	Name	Gr.	Spektrum	AR. 1929.0	Jährl. Veränderung	Jährl. Eigenbew. in 0s.0001	Dekl. 1929.0	Jährl. Veränderung	Jährl. Eigenbew. in 0".001
		M		h m s	s		° ' "	"	
905	[2 Ceti]	4.62	A 0	0 0 6.221	+3.0738	+ 12	−17 43 52.39	+20.041	− 4
1	α Androm.	2.15	A 0 p	0 4 42.798	+3.0986	+ 107	+28 41 54.53	+19.879	− 161
2	β Cassiopeiae	2.42	F 5	0 5 22.636	+3.1922	+ 677	+58 45 29.44	+19.859	− 180
3	ε Phoenicis	3.94	K 0	0 5 48.668	+3.0475	+ 99	−46 8 21.64	+19.846	− 192
4	[22 Androm.]	5.08	F 0	0 6 37.372	+3.1132	+ 8	+45 40 37.68	+20.033	− 3
5	[κ² Sculptoris]	5.56	K 0	0 7 58.250	+3.0483	+ 4	−28 11 43.47	+20.038	+ 6
6	[ϑ Sculptoris]	5.19	F 5	0 8 7.505	+3.0494	+ 104	−35 31 50.15	+20.156	+ 124
7	γ Pegasi	2.87	B 2	0 9 34.620	+3.0877	+ 1	+14 47 19.73	+20.013	− 14
8	[Br. 6]	6.23	B 9	0 12 10.493	+3.3764	+ 68	+76 33 22.83	+20.018	+ 1
9	ι Ceti	3.75	K 0	0 15 48.624	+3.0565	− 15	− 9 13 2.89	+19.965	− 32
10	ζ Tucanae	4.34	F 8	0 16 22.902	+3.1351	+2696	−65 17 31.73	+21.147	+1154
11	β Hydri	2.90	G 0	0 22 2.915	+3.1808	+6944	−77 39 14.71	+20.270	+ 318
12	α Phoenicis	2.44	K 0	0 22 46.633	+2.9673	+ 168	−42 41 30.12	+19.537	− 409
13	12 Ceti	6.04	K 5	0 26 24.924	+3.0619	+ 8	− 4 20 58.17	+19.903	− 8
14	[Ceti 49 G.]	5.23	A 3	0 26 49.753	+3.0002	− 25	−24 10 49.59	+19.916	+ 9
15	[λ¹ Phoenicis]	4.88	A 2	0 27 59.668	+2.8965	+ 123	−49 11 46.26	+19.907	+ 12
16	[κ Cassiop.]	4.24	B 0	0 28 56.955	+3.3980	+ 11	+62 32 24.62	+19.888	+ 3
17	ζ Cassiopeiae	3.72	B 3	0 33 0.283	+3.3344	+ 23	+53 30 22.97	+19.830	− 7
18	π Androm.	4.44	B 3	0 33 4.998	+3.2010	+ 17	+33 19 43.39	+19.836	0
19	[ε Androm.]	4.52	G 5	0 34 47.926	+3.1673	− 173	+28 55 35.28	+19.563	− 251
20	δ Androm.	3.49	K 2	0 35 31.559	+3.2048	+ 106	+30 28 21.92	+19.720	− 84
21	α Cassiopeiae	2.47	K 0	0 36 27.932	+3.3945	+ 60	+56 8 53.57	+19.762	− 29
22	β Ceti	2.24	K 0	0 40 1.575	+3.0118	+ 160	−18 22 33.93	+19.778	+ 39
23	[η Phoenicis]	4.53	A 0	0 40 10.208	+2.7026	+ 5	−57 51 9.21	+19.729	− 8
25	ο Cassiopeiae	4.70	B 2	0 40 45.574	+3.3366	+ 22	+47 53 45.67	+19.720	− 8
26	[λ² Sculptoris]	5.97	K 0	0 40 46.172	+2.9004	+ 178	−38 48 45.97	+19.843	+ 114
24	21 Cassiopeiae	5.59	A 2	0 40 55.492	+3.9289	− 57	+74 36 0.92	+19.703	− 23
27	ζ Androm.	4.30	K 0	0 43 34.243	+3.1772	− 75	+23 52 52.32	+19.605	− 79
28	[δ Piscium]	4.55	K 5	0 44 59.781	+3.1110	+ 52	+ 7 11 56.16	+19.614	− 46
31	[λ Hydri]	4.96	K 5	0 46 8.230	+2.0934	+ 398	−75 18 35.15	+19.613	− 27
29	[Br. 82]	5.45	F 2 + A 2	0 46 24.104	+3.6264	+ 59	+63 51 40.95	+19.630	− 5
30	[19 Ceti]	5.24	F 5	0 46 34.218	+3.0044	− 159	−11 1 35.11	+19.409	− 223
34	[λ² Tucanae]	5.34	K 0	0 52 21.258	+2.2422	− 33	−69 54 39.16	+19.479	− 45
32	γ Cassiopeiae	2.25	B 0 p	0 52 24.462	+3.6083	+ 37	+60 19 57.43	+19.519	− 4
33	μ Androm.	3.94	A 2	0 52 48.317	+3.3252	+ 129	+38 6 52.59	+19.551	+ 36
35	α Sculptoris	4.39	B 5	0 55 11.106	+2.8903	− 5	−29 44 27.78	+19.461	− 5
36	ε Piscium	4.45	K 0	0 59 15.360	+3.1124	− 55	+ 7 30 29.82	+19.409	+ 30
37	[26 Ceti]	6.07	F 0	1 0 9.702	+3.0869	+ 81	+ 0 59 11.68	+19.319	− 39
38	β Phoenicis	3.35	K 0	1 2 54.980	+2.6774	− 56	−47 5 55.96	+19.278	− 15
39	[ι Tucanae]	5.32	K 0	1 4 30.164	+2.3803	+ 100	−62 9 15.09	+19.252	− 4

Nr.	Name	Gr.	Spektrum	AR. 1929.0	Jährl. Veränderung	Jährl. Eigenbew. in 0s.0001	Dekl. 1929.0	Jährl. Veränderung	Jährl. Eigenbew. in 0".001
		M		h m s	s		° ′ ″	″	
40	[η Ceti]	3.60	K 0	1 5 1.028	+3.0169	+ 137	−10 33 29.71	+19.112	−132
42	β Androm.	2.37	M a	1 5 45.013	+3.3552	+ 151	+35 14 40.49	+19.113	−113
41	[44 H. Cephei]	5.68	A 0	1 6 4.143	+5.1162	+ 334	+79 17 48.40	+19.226	+ 9
43	[τ Piscium]	4.70	K 0	1 7 44.667	+3.3006	+ 56	+29 42 46.85	+19.134	− 41
44	[Sculpt. 102 G.]	5.91	A 5	1 9 29.126	+2.7624	+ 39	−38 13 56.68	+19.103	− 27
45	υ Piscium	4.67	A 2	1 15 33.510	+3.2937	+ 15	+26 53 28.79	+18.954	− 11
47	ϑ Ceti	3.83	K 0	1 20 28.429	+2.9982	− 55	− 8 32 57.39	+18.607	−214
46	[ψ Cassiop.]	4.96	K 0	1 20 53.491	+4.2160	+ 135	+67 45 36.52	+18.841	+ 32
48	δ Cassiopeiae	2.80	A 5	1 21 9.262	+3.9110	+ 398	+59 52 0.95	+18.758	− 43
49	[γ Phoenicis]	3.40	K 5	1 25 16.942	+2.6051	− 38	−43 40 54.20	+18.455	−218
50	η Piscium	3.72	G 5	1 27 40.818	+3.2079	+ 15	+14 58 48.95	+18.588	− 7
51	40 Cassiopeiae	5.50	K 0	1 32 48.198	+4.7589	− 20	+72 40 44.59	+18.417	− 6
53	[Hydri 14 G.]	6.06	G 5	1 33 9.743	+0.3814	− 70	−78 51 54.53	+18.283	−128
52	υ Persei	3.77	K 0	1 33 37.399	+3.6744	+ 64	+48 16 8.83	+18.282	−113
54	α Eridani	0.60	B 5	1 35 4.371	+2.2365	+ 122	−57 35 49.65	+18.306	− 38
55	43 Cassiopeiae	5.54	A 0 p	1 37 3.308	+4.4196	+ 88	+67 41 5.24	+18.272	− 2
56	[ν Piscium]	4.68	K 0	1 37 44.048	+3.1208	− 16	+ 5 7 43.80	+18.251	+ 2
58	[Sculpt. 129 G.]	5.64	A 0	1 38 55.147	+2.6430	− 57	−37 11 24.24	+18.183	− 23
57	φ Persei	4.19	B 0 p	1 39 11.910	+3.7514	+ 26	+50 19 54.27	+18.181	− 15
59	τ Ceti	3.65	K 0	1 40 46.165	+2.7870	−1195	−16 18 39.41	+18.990	+852
60	ο Piscium	4.50	K 0	1 41 38.489	+3.1663	+ 47	+ 8 48 3.55	+18.155	+ 50
61	Lac. ε Sculpt.	5.39	F 0	1 42 19.185	+2.8087	+ 99	−25 24 26.07	+18.005	− 75
62	ζ Ceti	3.92	K 0	1 47 57.290	+2.9607	+ 22	−10 41 6.84	+17.828	− 34
64	α Trianguli	3.58	F 5	1 49 1.705	+3.4165	+ 11	+29 14 1.10	+17.586	−233
63	ε Cassiopeiae	3.44	B 3	1 49 15.956	+4.2983	+ 50	+63 19 16.83	+17.794	− 15
65	ξ Piscium	4.84	K 0	1 49 52.662	+3.1048	+ 13	+ 2 50 15.23	+17.804	+ 19
66	β Arietis	2.72	A 5	1 50 42.781	+3.3110	+ 65	+20 27 41.94	+17.642	−109
67	ψ Phoenicis	4.41	M b	1 50 48.026	+2.4054	− 94	−46 39 0.52	+17.646	−101
69	[η² Hydri]	4.72	K 0	1 53 7.982	+1.5179	+ 119	−67 59 46.39	+17.731	+ 79
68	χ Eridani	3.73	G 5	1 53 11.674	+2.3343	+ 712	−51 57 43.77	+17.919	+270
72	α Hydri	3.02	F 0	1 56 31.918	+1.8898	+ 361	−61 54 54.11	+17.530	+ 21
71	υ Ceti	4.18	M a	1 56 39.572	+2.8265	+ 91	−21 25 16.37	+17.489	− 14
70	50 Cassiopeiae	4.06	A 2	1 57 19.940	+5.0880	− 91	+72 4 43.84	+17.499	+ 25
73	γ Androm.	2.28 5.08	K 0 A 0	1 59 31.932	+3.6764	+ 43	+41 59 23.19	+17.326	− 54
74	α Arietis	2.23	K 2	2 3 9.943	+3.3788	+ 137	+23 7 39.08	+17.076	−143
75	β Trianguli	3.08	A 5	2 5 18.697	+3.5653	+ 122	+34 39 8.20	+17.082	− 40
77	[6 Persei]	5.40	K 0	2 8 52.270	+3.9812	+ 368	+50 44 12.84	+16.789	−169
76	55 Cassiopeiae	6.15	F 5 + A 2	2 8 53.115	+4.6867	− 10	+66 11 34.11	+16.960	+ 3
78	Lac. μ Forn.	5.24	A 0	2 9 46.917	+2.6425	+ 13	−31 3 22.86	+16.917	+ 2
79	[γ Trianguli]	4.07	A 0	2 13 5.192	+3.5622	+ 37	+33 31 11.19	+16.715	− 44

Nr.	Name	Gr.	Spektrum	AR. 1929.0	Jährl. Veränderung	Jährl. Eigenbew. in 0s.0001	Dekl. 1929.0	Jährl. Veränderung	Jährl. Eigenbew. in 0".001
		M		h m s	s		° ' "	"	
80	67 Ceti	5.70	G 5	2 13 26.430	+2.9914	+ 55	− 6 44 55.17	+16.632	−110
82	[φ Eridani]	3.78	B 8	2 13 58.328	+2.1425	+ 81	−51 50 25.72	+16.680	− 36
81	[ϑ Arietis]	5.69	A 0	2 14 10.311	+3.3345	− 10	+19 34 24.59	+16.705	− 2
83	[κ Fornacis]	5.37	F 5	2 19 17.617	+2.7451	+ 142	−24 8 18.08	+16.392	− 63
84	[λ Horologii]	5.47	F 2	2 22 54.742	+1.6769	− 95	−60 37 45.83	+16.135	−137
85	ξ^2 Ceti	4.34	A 0	2 24 22.868	+3.1881	+ 26	+ 8 8 33.57	+16.192	− 4
86	[κ Eridani]	4.44	B 5	2 24 22.876	+2.1977	− 2	−48 1 19.75	+16.174	− 23
88	[λ^1 Fornacis]	5.88	K 0	2 30 9.277	+2.4993	− 43	−34 57 42.49	+15.862	− 32
87	36 H. Cassiop.	5.34	K 0	2 31 14.429	+5.6665	− 60	+72 30 33.49	+15.857	+ 21
90	μ Hydri	5.29	K 0	2 33 8.006	−1.3122	+ 470	−79 25 9.57	+15.701	− 33
89	ν Arietis	5.36	A 2	2 34 46.791	+3.4037	− 9	+21 39 19.19	+15.629	− 16
91	δ Ceti	4.04	B 2	2 35 50.464	+3.0739	+ 7	+ 0 1 23.03	+15.584	− 2
95	[ε Hydri]	4.26	B 9	2 38 29.459	+0.9184	+ 168	−68 34 15.35	+15.444	+ 5
92	[Br. 366]	5.84	A 2	2 38 41.362	+5.1374	+ 25	+67 31 27.96	+15.400	− 29
94	[35 Arietis]	4.58	B3	2 39 16.780	+3.5170	+ 4	+27 24 21.80	+15.388	− 7
93	ϑ Persei	4.22	F 8	2 39 20.359	+4.0897	+ 346	+48 55 45.39	+15.303	− 89
96	[γ Ceti]	3.58	A 2	2 39 37.147	+3.1071	− 98	+ 2 56 14.83	+15.228	−148
97	π Ceti	4.39	B 5	2 40 44.552	+2.8545	− 8	−14 9 30.77	+15.304	− 9
98	μ Ceti	4.36	F 0	2 41 6.043	+3.2412	+ 189	+ 9 48 55.02	+15.262	− 31
99	[η Persei]	3.93	K 0	2 45 30.201	+4.3657	+ 28	+55 36 7.62	+15.030	− 11
100	41 Arietis	3.68	B 8	2 45 47.950	+3.5281	+ 51	+26 58 8.09	+14.911	−113
101	β Fornacis	4.50	K 0	2 46 7.106	+2.5103	+ 63	−32 42 12.16	+15.164	+159
102	τ^2 Eridani	4.81	K 0	2 47 49.045	+2.7207	− 39	−21 17 45.84	+14.877	− 29
103	τ Persei	4.06	G 0 + A 5	2 49 12.667	+4.2441	+ 3	+52 28 23.47	+14.823	− 2
104	η Eridani	4.05	K 0	2 52 57.452	+2.9301	+ 52	− 9 10 47.55	+14.384	−218
106	ϑ Eridani	3.42 4.42	A 2	2 55 34.020	+2.2724	− 67	−40 35 18.26	+14.473	+ 28
105	47 H. Cephei	5.66	M a	2 56 34.149	+7.9129	− 113	+79 8 26.41	+14.406	+ 22
107	α Ceti	2.82	M a	2 58 33.918	+3.1345	− 9	+ 3 48 43.70	+14.186	− 76
108	γ Persei	3.08	F 5 + A 3	2 59 38.474	+4.3355	+ 2	+53 13 47.02	+14.192	− 4
109	*ρ Persei	var.	M b	3 0 37.155	+3.8397	+ 114	+38 33 58.98	+14.032	−103
110	μ Horologii	5.16	F 0	3 1 56.172	+1.4099	− 117	−60 0 45.96	+13.986	− 68
113	[ϑ Hydri]	5.52	B 8	3 2 5.711	+0.1118	+ 51	−72 10 46.65	+14.065	+ 22
111	*β Persei	var.	B 8	3 3 32.477	+3.8983	+ 7	+40 41 0.09	+13.952	− 1
112	[ι Persei]	4.17	G 0	3 3 55.916	+4.3215	+1296	+49 20 36.23	+13.845	− 83
114	δ Arietis	4.53	K 0	3 7 33.891	+3.4281	+ 106	+19 27 33.56	+13.694	− 4
117	12 Eridani	3.95	F 8	3 9 3.210	+2.5470	+ 241	−29 15 58.20	+14.246	+644
116	[94 Ceti]	5.14	F 8	3 9 8.951	+3.0615	+ 136	− 1 27 38.43	+13.535	− 62
118	[Horol. 38 G.]	5.72	N a	3 10 44.978	+1.5160	− 5	−57 35 13.64	+13.487	− 6
115	48 H. Cephei	5.50	F 0	3 11 14.536	+7.5485	+ 183	+77 28 35.49	+13.417	− 44
119	[e Eridani]	4.30	G 5	3 17 5.563	+2.3958	+2786	−43 20 26.72	+13.809	+731

Nr. 109. Größe: Max. 3.3, Min. 4.1 Nr. 111. Größe: Max. 2.3, Min. 3.5

Nr.	Name	Gr.	Spektrum	AR. 1929.0	Jährl. Veränderung	Jährl. Eigenbew. in 0ˢ.0001	Dekl. 1929.0	Jährl. Veränderung	Jährl. Eigenbew. in 0″.001
		M		h m s	s		° ′ ″	″	
120	α Persei	1.90	F 5	3 19 14.599	+4.2757	+ 29	+49 36 35.60	+12.909	— 26
121	o Tauri	3.80	G 5	3 20 59.382	+3.2272	— 44	+ 8 46 48.24	+12.742	— 76
122	2 H. Camelop.	4.42	B 9 p	3 23 18.202	+4.8452	— 1	+59 41 40.74	+12.668	+ 6
123	[ξ Tauri]	3.75	B 8	3 23 19.097	+3.2499	+ 39	+ 9 29 10.02	+12.616	— 45
124	[σ Persei]	4.55	K o	3 25 33.571	+4.2234	+ 9	+47 45 5.74	+12.531	+ 23
125	f Tauri	4.28	K o	3 26 56.995	+3.3105	+ 13	+12 41 39.89	+12.408	— 5
126	[κ Reticuli]	4.80	F 5	3 28 7.785	+1.0399	+514	—63 11 15.33	+12.692	+361
127	ε Eridani	3.81	K o	3 29 35.063	+2.8262	—658	— 9 41 51.75	+12.244	+ 13
128	[Horol. 45 G.]	5.60	K o	3 30 27.440	+1.7842	+ 48	—50 37 8.19	+12.251	+ 80
130	[y Eridani]	4.58	K o	3 34 32.737	+2.1520	— 16	—40 30 24.36	+11.860	— 24
129	[Grb 716]	5.32	M a	3 35 58.544	+5.1913	— 21	+62 59 18.48	+11.806	+ 22
131	δ Persei	3.10	B 5	3 37 51.651	+4.2655	+ 33	+47 33 43.29	+11.614	— 35
133	[δ Fornacis]	4.93	B 5	3 39 25.407	+2.3853	— 5	—32 9 52.01	+11.546	+ 7
135	[δ Eridani]	3.72	K o	3 39 50.739	+2.8735	— 64	—10 0 9.70	+12.255	+747
132	[o Persei]	3.94	B 1	3 39 51.665	+3.7591	+ 8	+32 3 52.50	+11.490	— 17
134	ν Persei	3.93	F 5	3 40 21.792	+4.0713	— 6	+42 21 20.46	+11.466	— 5
136	[17 Tauri]	3.81	B 5 p	3 40 39.314	+3.5604	+ 17	+23 53 29.04	+11.406	— 44
137	[24 Eridani]	5.09	B 8	3 40 54.020	+3.0464	+ 1	— 1 23 9.68	+11.424	— 8
138	5 H. Camelop.	4.67	A o	3 42 49.901	+6.3045	+ 42	+71 6 56.78	+11.253	— 40
139	η Tauri	2.96	B 5 p	3 43 15.600	+3.5642	+ 17	+23 53 12.62	+11.215	— 48
141	β Reticuli	3.80	K o	3 43 18.173	+0.7464	+477	—65 1 48.98	+11.320	+ 61
140	$τ^6$ Eridani	4.33	F 8	3 43 47.521	+2.5801	—123	—23 27 30.34	+10.705	—519
142	[27 Tauri]	3.80	B 8	3 44 56.176	+3.5651	+ 14	+23 50 15.37	+11.096	— 45
143	g Eridani	4.24	K o	3 46 47.811	+2.2451	— 40	—36 24 52.13	+10.953	— 52
146	γ Hydri	3.17	M a	3 48 19.145	—0.9478	+124	—74 27 25.42	+11.003	+109
144	ζ Persei	2.91	B 1	3 49 39.852	+3.7687	+ 11	+31 40 26.96	+10.784	— 11
145	*9 H. Camelop.	5.22	K o + A o	3 51 4.078	+5.1037	— 3	+60 54 9.68	+10.675	— 16
147	ε Persei	2.96	B 1	3 53 4.987	+4.0223	+ 23	+39 48 22.52	+10.512	— 29
148	ξ Persei	4.05	Oe 5	3 54 21.181	+3.8900	+ 10	+35 35 17.62	+10.438	— 8
149	γ Eridani	3.19	K 5	3 54 42.940	+2.7986	+ 42	—13 42 34.26	+10.308	—112
150	*λ Tauri	var.	B 3	3 56 44.625	+3.3225	— 5	+12 17 27.37	+10.254	— 13
151	ν Tauri	3.94	A o	3 59 22.638	+3.1906	+ 4	+ 5 47 36.28	+10.059	— 10
153	[Erid. 174 G.]	5.57	A 5	4 2 41.797	+2.4723	+148	—27 50 42.35	+ 9.925	+108
152	c Persei	4.03	B 3 p	4 3 29.987	+4.3512	+ 33	+47 31 28.39	+ 9.724	— 32
154	o^1 Eridani	4.14	F 2	4 8 23.911	+2.9282	+ 8	— 7 1 17.86	+ 9.461	+ 82
155	α Horologii	3.83	K o	4 11 38.792	+1.9859	+ 20	—42 28 7.74	+ 8.908	—219
156	α Reticuli	3.36	G 5	4 13 30.299	+0.7682	+ 50	—62 39 4.39	+ 9.029	+ 47
157	[γ Doradus]	4.36	F 5	4 14 9.771	+1.5688	+ 89	—51 39 54.94	+ 9.103	+172
160	$υ^4$ Eridani	3.59	B 9	4 15 12.338	+2.2687	+ 37	—33 58 15.24	+ 8.837	— 12
159	[γ Tauri]	3.86	K o	4 15 45.009	+3.4130	+ 82	+15 27 26.73	+ 8.778	— 29

Nr. 145. Doppelstern, Größe der Komponenten: 5.0 und 8.2 Nr. 150. Größe: Max. 3.3, Min. 4.2

Mittlere Sternörter 1929.0

Nr.	Name	Gr.	Spektrum	AR. 1929.0	Jährl. Veränderung	Jährl. Eigenbew. in 0ˢ.0001	Dekl. 1929.0	Jährl. Veränderung	Jährl. Eigenbew. in 0″.001
		M		h m s	s		° ′ ″	″	
158	[54 Persei]	5.10	G 5	4 15 47.734	+3.8928	− 20	+34 23 48.56	+8.797	− 6
161	[Erid. 212 G.]	5.31	A 0	4 17 33.212	+2.6185	+ 36	−20 48 27.76	+8.680	+ 15
162	δ Tauri	3.93	K 0	4 18 50.252	+3.4588	+ 78	+17 22 38.30	+8.532	− 31
163	[η Reticuli]	5.18	K 0	4 21 7.005	+0.6451	+127	−63 33 17.24	+8.542	+160
166	[δ Mensae]	5.62	K 0 p	4 22 43.784	−4.1030	+ 99	−80 22 54.22	+8.326	+ 71
164	ε Tauri	3.63	K 0	4 24 28.095	+3.5022	+ 80	+19 1 27.67	+8.080	− 35
165	*[1 Camel. seq.]	5.42	B 1	4 26 23.914	+4.7466	+ 7	+53 45 30.18	+7.961	0
167	[δ Caeli]	5.16	B 3	4 28 39.523	+1.8362	− 6	−45 6 20.11	+7.762	− 17
168	α Tauri	1.06	K 5	4 31 50.651	+3.4415	+ 48	+16 22 4.52	+7.333	−189
171	α Doradus	3.47	A 0 p	4 32 27.720	+1.2965	+ 71	−55 11 27.86	+7.475	+ 3
169	ν Eridani	4.12	B 2	4 32 46.209	+2.9973	+ 2	− 3 29 47.24	+7.442	− 4
170	[υ² Eridani]	3.88	K 0	4 32 47.333	+2.3314	− 46	−30 42 24.02	+7.439	− 6
172	53 Eridani	3.98	K 0	4 34 55.649	+2.7467	− 54	−14 26 30.51	+7.106	−164
174	τ Tauri	4.33	B 5	4 37 58.876	+3.6001	+ 5	+22 49 19.69	+7.002	− 19
173	Grb 848	6.04	F 0	4 39 14.777	+8.0355	+105	+75 48 54.73	+6.784	−134
176	[μ Eridani]	4.18	B 5	4 41 57.080	+2.9997	+ 13	− 3 23 0.95	+6.683	− 12
175	4 Camelop.	5.35	A 2	4 42 4.845	+4.9919	+ 60	+56 37 59.14	+6.538	−146
177	[μ Mensae]	5.69	B 9	4 43 45.937	−0.6064	+ 17	−71 3 41.26	+6.574	+ 28
178	9 Camelop.	4.38	B 0	4 46 58.690	+5.9540	+ 5	+66 13 28.42	+6.289	+ 10
179	[π⁴ Orionis]	3.78	B 3	4 47 25.381	+3.1948	0	+ 5 29 5.57	+6.235	− 7
180	π⁵ Orionis	3.87	B 3	4 50 33.091	+3.1245	− 2	+ 2 19 32.24	+5.978	− 3
181	ι Aurigae	2.90	K 2	4 52 22.026	+3.9059	+ 10	+33 3 18.96	+5.810	− 20
183	*ε Aurigae	var.	F 5 p	4 56 52.204	+4.3032	+ 6	+43 43 11.70	+5.438	− 14
182	10 Camelop.	4.22	G 0 p	4 57 5.653	+5.3316	− 1	+60 20 26.52	+5.421	− 12
184	ι Tauri	4.70	A 5	4 58 51.007	+3.5857	+ 53	+21 29 24.09	+5.242	− 43
185	η Aurigae	3.28	B 3	5 1 31.952	+4.2057	+ 33	+41 8 24.57	+4.987	− 71
186	ε Leporis	3.29	K 5	5 2 27.300	+2.5396	+ 20	−22 27 55.16	+4.912	− 68
187	[η² Pictoris]	4.92	K 5	5 3 7.416	+1.5504	+ 35	−49 40 23.54	+4.929	+ 6
189	[ζ Doradus]	4.76	F 8	5 4 17.355	+1.0245	− 70	−57 34 9.71	+4.928	+103
188	β Eridani	2.92	A 3	5 4 21.511	+2.9494	− 59	− 5 10 37.22	+4.740	− 79
190	[λ Eridani]	4.34	B 2	5 5 44.876	+2.8710	+ 3	− 8 50 38.22	+4.697	− 4
192	μ Aurigae	4.78	A 3	5 8 34.016	+4.1042	− 13	+38 24 7.42	+4.382	− 79
191	19 H. Camelop.	5.16	F 8	5 10 49.142	+9.8563	−311	+79 9 13.54	+4.429	+161
194	β Orionis	0.34	B 8 p	5 11 7.482	+2.8829	+ 2	− 8 16 56.86	+4.242	0
193	α Aurigae	0.21	G 0	5 11 26.453	+4.4307	+ 85	+45 55 39.45	+3.787	−428
196	ϑ Doradus	4.78	K 0	5 13 48.432	−0.0502	+ 14	−67 15 54.66	+4.051	+ 39
195	[τ Orionis]	3.68	B 5	5 14 9.478	+2.9128	− 12	− 6 55 11.68	+3.976	− 7
197	[ο Columbae]	4.91	K 0	5 14 55.354	+2.1627	+ 63	−34 57 48.96	+3.589	−329
198	[Columb. 12 G.]	5.75	A 0	5 16 33.892	+2.3922	+ 8	−27 26 27.22	+3.765	− 11
199	[ζ Pictoris]	5.52	F 8	5 17 37.499	+1.4700	+ 9	−50 40 53.93	+3.912	+227

Nr. 165. Doppelstern, Größe der Komponenten: 5.86 und 6.61.

Nr. 183. Größe: Max. 3.4, Min. 4.1

Nr.	Name	Gr.	Spektrum	AR. 1929.0	Jährl. Veränderung	Jährl. Eigenbew. in 0s.0001	Dekl. 1929.0	Jährl. Veränderung	Jährl. Eigenbew. in 0".001
		M		h m s	s		° ' "	"	
200	[η Orion. med.]	3.44	B 1	5 20 54.407	+3.0167	+ 5	— 2 27 40.22	+3.404	+ 1
201	γ Orionis	1.70	B 2	5 21 19.324	+3.2177	— 3	+ 6 17 11.78	+3.346	— 20
202	β Tauri	1.78	B 8	5 21 48.136	+3.7923	+ 25	+28 32 56.66	+3.149	—177
203	17 Camelop.	5.75	K 5	5 23 27.506	+5.6630	— 3	+63 0 37.10	+3.181	— 1
204	[β Leporis]	2.96	G 0	5 25 12.193	+2.5711	+ 4	—20 48 54.20	+2.939	— 93
206	δ Orionis	2.48 6.87	B 0	5 28 22.698	+3.0648	0	— 0 21 1.49	+2.755	— 2
207	α Leporis	2.69	F 0	5 29 35.886	+2.6460	+ 2	—17 52 19.28	+2.653	+ 2
205	Grb 966	6.36	K 5	5 30 13.192	+8.0172	— 8	+75 0 0.61	+2.617	+ 20
208	[φ[1] Orionis]	4.53	B 0	5 30 55.306	+3.2932	— 1	+ 9 26 34.01	+2.526	— 10
209	ι Orionis	2.87	Oe 5	5 31 57.573	+2.9350	+ 4	— 5 57 19.25	+2.442	— 4
210	ε Orionis	1.75	B 0	5 32 36.596	+3.0441	+ 1	— 1 14 45.66	+2.387	— 3
212	β Doradus	3.81	F 5 p	5 33 0.390	+0.5184	— 13	—62 32 9.90	+2.353	— 2
211	ζ Tauri	3.00	B 3 p	5 33 24.034	+3.5856	+ 6	+21 6 2.54	+2.296	— 26
214	[γ Mensae]	5.06	K 0	5 34 41.083	—2.3856	+283	—76 23 32.89	+2.508	+298
213	[σ Orionis]	3.78	B 0	5 35 10.860	+3.0116	0	— 2 38 23.28	+2.166	— 1
215	α Columbae	2.75	B 5 p	5 37 4.612	+2.1721	— 2	—34 6 40.26	+1.964	— 37
216	ο Aurigae	5.52	A 0	5 40 23.917	+4.6476	— 6	+49 47 49.63	+1.704	— 9
217	[γ Leporis]	3.80	F 8	5 41 30.223	+2.5019	—201	—22 28 14.02	+1.240	—376
218	[130 Tauri]	5.51	F 0	5 43 17.792	+3.4987	+ 4	+17 42 14.45	+1.454	— 6
219	ζ Leporis	3.67	A 2	5 43 44.266	+2.7183	— 12	—14 50 50.15	+1.419	— 2
220	κ Orionis	2.20	B 0	5 44 23.324	+2.8455	+ 4	— 9 41 37.15	+1.361	— 3
221	[ν Aurigae]	4.18	K 0	5 46 34.072	+4.1577	— 4	+39 7 46.21	+1.185	+ 11
222	[δ Leporis]	3.90	K 0	5 48 16.059	+2.5802	+165	—20 53 2.75	+0.373	—653
223	[β Columbae]	3.22	K 0	5 48 27.324	+2.1139	+ 34	—35 47 38.65	+1.413	+404
224	α Orionis	0.92	M a	5 51 19.649	+3.2482	+ 20	+ 7 23 42.98	+0.772	+ 13
226	[η Leporis]	3.77	F 0	5 53 10.250	+2.7327	— 27	—14 10 46.20	+0.737	+140
225	δ Aurigae	3.88	K 0	5 53 40.848	+4.9405	+100	+54 16 53.01	+0.430	—122
227	β Aurigae	2.07	A 0 p	5 54 19.252	+4.4018	— 42	+44 56 31.31	+0.489	— 8
228	ϑ Aurigae	2.71	A 0 p	5 54 52.789	+4.0921	+ 49	+37 12 33.40	+0.361	— 87
229	η Columbae	4.03	K 0	5 56 58.404	+1.8370	+ 22	—42 49 6.75	+0.231	— 34
230	[66 Orionis]	5.70	K 0	6 1 13.241	+3.1696	— 6	+ 4 9 49.99	—0.122	— 15
231	[Puppis 1 G.]	6.22	F 8	6 2 25.787	+1.7267	— 83	—45 2 8.35	+0.019	+232
232	ν Orionis	4.40	B 2	6 3 31.105	+3.4264	+ 11	+14 46 41.74	—0.339	— 31
233	[36 Camelop.]	5.39	K 0	6 5 42.476	+6.0359	— 5	+65 44 6.34	—0.528	— 29
235	[δ Pictoris]	4.84	B 1	6 8 54.856	+1.1670	— 22	—54 57 8.68	—0.787	— 7
236	*η Geminor.	var.	M a	6 10 35.535	+3.6224	— 42	+22 31 44.20	—0.939	— 13
234	22 H. Camelop.	4.73	A 0	6 11 1.581	+6.6157	+ 16	+69 20 51.75	—1.066	—102
239	[α Mensae]	5.14	K 0	6 12 21.114	—1.7911	+235	—74 43 46.40	—1.306	—226
237	[2 Lyncis]	4.42	A 0	6 13 21.634	+5.2958	— 7	+59 2 20.18	—1.139	+ 29
238	[κ Columbae]	4.51	K 0	6 14 1.542	+2.1343	— 6	—35 6 57.91	—1.152	+ 74

Nr. 236. Größe: Max. 3.3, Min. 4.2

Mittlere Sternörter 1929.0

Nr.	Name	Gr.	Spektrum	AR. 1929.0	Jährl. Verände-rung	Jährl. Eigen-bew. in 0s.0001	Dekl. 1929.0	Jährl. Verände-rung	Jährl. Eigen-bew. in 0".001
		M		h m s	s		° ' "	"	
240	ζ Canis maj.	3.10	B 3	6 17 35.208	+ 2.3029	+ 2	−30 1 50.88	−1.533	+ 4
241	μ Geminor.	3.19	M a	6 18 39.955	+ 3.6307	+ 48	+22 33 5.78	−1.742	− 111
242	ψ¹ Aurigae	5.10	K 2	6 19 25.930	+ 4.6232	+ 9	+49 19 34.02	−1.701	− 3
243	β Canis maj.	1.99	B 1	6 19 34.356	+ 2.6419	− 4	−17 55 10.26	−1.708	+ 2
244	8 Monocer.	4.48 6.54	A 5	6 20 0.370	+ 3.1800	− 7	+ 4 37 48.72	−1.744	+ 4
245	α Argus	−0.86	F 0	6 22 22.471	+ 1.3315	+ 16	−52 39 22.88	−1.942	+ 11
246	10 Monocer.	4.98	B 3	6 24 27.216	+ 2.9630	− 2	− 4 43 1.17	−2.129	+ 5
247	8 Lyncis	6.05	G 0	6 31 12.373	+ 5.4875	−285	+61 32 45.10	−2.998	− 277
249	ξ² Canis maj.	4.54	A 0	6 32 4.813	+ 2.5143	+ 5	−22 54 27.01	−2.783	+ 13
251	γ Geminor.	1.93	A 0	6 33 36.665	+ 3.4669	+ 34	+16 27 40.74	−2.975	− 46
250	51 Aurigae	5.71	K 0	6 33 44.446	+ 4.1589	− 18	+39 27 18.46	−3.055	− 114
248	23 H. Camelop.	5.60	F 8	6 34 8.946	+10.2761	−293	+79 38 43.90	−3.598	− 622
252	ν Argus	3.18	B 8	6 35 35.299	+ 1.8356	− 4	−43 7 59.05	−3.120	− 20
253	*S Monocer.	4.68	Oe 5	6 37 4.126	+ 3.3051	+ 6	+ 9 57 46.06	−3.233	− 5
254	ε Geminor.	3.18	G 5	6 39 33.926	+ 3.6928	+ 3	+25 12 10.72	−3.458	− 15
256	ξ Geminor.	3.40	F 5	6 41 18.320	+ 3.3683	− 75	+12 58 24.57	−3.792	− 199
255	[ψ⁵ Aurigae]	5.34	G 0	6 41 37.481	+ 4.3273	+ 7	+43 38 59.21	−3.467	+ 154
257	*α Canis maj.	−1.58	A 0	6 42 1.261	+ 2.6437	−370	−16 37 3.51	−4.866	−1212
258	18 Monocer.	4.70	K 0	6 44 9.586	+ 3.1297	− 2	+ 2 29 27.84	−3.858	− 20
264	[ζ Mensae]	5.64	A 2	6 45 59.122	− 4.9626	− 34	−80 44 25.38	−3.910	+ 85
259	[43 Camelop.]	5.13	B 5	6 46 3.590	+ 6.4809	+ 16	+68 58 24.45	−3.998	+ 3
262	α Pictoris	3.30	A 5	6 47 27.851	+ 0.6173	−100	−61 51 53.54	−3.866	+ 256
261	ϑ Geminor.	3.64	A 2	6 48 6.708	+ 3.9568	+ 7	+34 2 54.37	−4.232	− 55
263	[τ Argus]	2.83	K 0	6 48 10.444	+ 1.4887	+ 29	−50 31 46.79	−4.278	− 96
260	[24 H. Camel.]	4.75	K 5	6 49 44.302	+ 8.7792	+216	+77 4 17.15	−4.330	− 14
266	ϑ Canis maj.	4.25	K 2	6 50 53.477	+ 2.7877	− 94	−11 56 54.73	−4.428	− 13
265	15 Lyncis	4.54	G 0	6 51 8.078	+ 5.2009	− 1	+58 31 4.78	−4.565	− 130
267	[ι Volantis]	5.52	B 8	6 52 16.063	− 0.6814	− 4	−70 52 30.98	−4.520	+ 12
268	ε Canis maj.	1.63	B 1	6 55 50.082	+ 2.3577	0	−28 52 28.10	−4.834	+ 1
269	*ζ Geminor.	var.	G 0 p	6 59 53.972	+ 3.5600	0	+20 40 33.36	−5.182	− 3
270	[o² Canis maj.]	3.12	B 5 p	7 0 3.577	+ 2.5054	− 2	−23 43 42.76	−5.193	0
271	γ Canis maj.	4.07	B 5	7 0 32.812	+ 2.7153	+ 8	−15 31 38.27	−5.246	− 12
272	[Carinae 27 G.]	5.30	A 0	7 2 58.836	+ 1.1168	− 24	−56 38 29.30	−5.447	− 7
273	δ Canis maj.	1.98	F 8 p	7 5 30.223	+ 2.4391	− 8	−26 16 46.12	−5.648	+ 3
274	63 Aurigae	5.07	K 2	7 6 46.523	+ 4.1302	+ 45	+39 26 17.02	−5.757	0
275	[J Puppis]	4.47	F 0	7 10 32.099	+ 1.7096	−147	−46 38 24.38	−5.982	+ 91
276	[64 Aurigae]	5.75	A 3	7 13 6.266	+ 4.1760	− 3	+41 0 39.65	−6.282	+ 3
277	λ Geminor.	3.65	A 2	7 14 0.850	+ 3.4492	− 31	+16 40 11.27	−6.405	− 44
278	π Argus	2.74	K 5	7 14 38.061	+ 2.1185	− 14	−36 58 8.94	−6.410	+ 3
279	δ Geminor.	3.51	F 0	7 15 53.100	+ 3.5853	− 11	+22 6 52.50	−6.527	− 10

Nr. 253. Doppelstern, Größe der Komponenten: 6.0 und 8.8 Nr. 257. Ort des Schwerpunktes. Die Reduktion auf den Hauptstern ist nach den Elementen von Auwers A. N. 3085

1929.0 $\Delta\alpha = -0^s.176$ $\Delta\delta = -2''.20$
1930.0 $= -0\ .165$ $= -2\ .24$

Nr. 269. Größe: Max. 3.7, Min. 4.3

Nr.	Name	Gr.	Spektrum	AR. 1929.0	Jährl. Veränderung	Jährl. Eigenbew. in 0s.0001	Dekl. 1929.0	Jährl. Veränderung	Jährl. Eigenbew. in 0″.001
		M		h m s	s		° ′ ″	″	
281	δ Volantis	4.02	F 5	7 16 52.375	−0.0229	+ 4	−67 49 38.63	− 6.610	− 12
280	19 Lyncis seq.	5.61	B 8	7 17 4.902	+4.9025	− 1	+55 25 1.61	− 6.649	− 34
283	[η Can. maj.]	2.43	B 5 p	7 21 17.186	+2.3731	− 5	−29 9 48.59	− 6.948	+ 13
282	ι Geminor.	3.89	K 0	7 21 19.200	+3.7291	− 83	+27 56 26.60	− 7.049	− 85
285	β Canis min.	3.09	B 8	7 23 18.104	+3.2549	− 31	+ 8 26 1.31	− 7.167	− 40
284	Grb 1308	5.80	K 0	7 23 30.553	+6.2603	− 7	+68 36 47.25	− 7.187	− 44
286	ρ Geminor.	4.18	F 0	7 24 32.868	+3.8617	+122	+31 55 38.41	− 7.045	+ 183
287	*α Geminor.	2.85 1.99	A 0	7 30 4.285	+3.8327	−129	+32 2 46.33	− 7.758	− 81
288	[Pupp. 108 G.]	4.52	F 8	7 31 0.792	+2.5675	− 39	−22 8 31.28	− 7.735	+ 18
289	25 Monocer.	5.17	F 5	7 33 44.924	+2.9834	− 47	− 3 57 4.53	− 7.953	+ 20
290	[*f* Puppis]	4.62	B 8	7 34 44.430	+2.2194	− 27	−34 48 28.45	− 8.036	+ 16
291	*α Canis min.	0.48	F 5	7 35 35.184	+3.1416	−470	+ 5 24 29.64	− 9.147	−1028
292	24 Lyncis	4.96	A 2	7 37 0.614	+5.0861	− 47	+58 52 42.40	− 8.287	− 53
293	[26 Monocer.]	4.07	K 0	7 37 51.289	+2.8662	− 57	− 9 23 3.82	− 8.322	− 21
294	ϰ Geminor.	3.68	G 5	7 40 9.864	+3.6249	− 15	+24 34 10.84	− 8.538	− 54
295	β Geminor.	1.21	K 0	7 40 58.470	+3.6741	−468	+28 11 56.79	− 8.601	− 53
297	ζ Volantis	3.89	K 0	7 42 42.096	−0.7312	+ 8	−72 26 9.14	− 8.677	+ 8
296	π Geminor.	5.29	K 2	7 42 55.982	+3.8723	− 1	+33 35 29.17	− 8.734	− 31
298	[Pupp. 205 G.]	5.34	G 0	7 48 29.066	+2.7786	− 41	−13 42 30.92	− 9.480	− 343
299	[26 Lyncis]	5.69	K 0	7 49 32.962	+4.3751	− 40	+47 45 0.94	− 9.227	− 6
301	[α Puppis]	3.76	G 5	7 49 46.540	+2.0620	− 18	−40 23 30.70	− 9.237	+ 1
300	Grb 1374	5.56	K 0	7 51 43.939	+7.2172	− 30	+74 6 37.19	− 9.422	− 32
303	χ Argus	3.60	B 3	7 54 58.477	+1.5266	− 32	−52 47 28.20	− 9.616	+ 24
302	[53 Camelop.]	6.00	A 2 p	7 55 39.486	+5.1390	− 30	+60 31 13.50	− 9.713	− 21
304	[27 Monocer.]	5.06	K 0	7 56 11.434	+2.9990	− 27	− 3 29 5.09	− 9.723	+ 9
305	χ Geminor.	5.04	K 0	7 59 9.680	+3.6879	− 15	+27 59 41.12	−10.004	− 46
306	ζ Argus	2.27	O d	8 1 5.258	+2.1079	− 34	−39 48 8.47	−10.094	+ 10
307	27 Lyncis	4.87	A 2	8 3 7.553	+4.5213	− 59	+51 42 46.79	−10.262	− 4
308	ι Navis	2.88	F 5	8 4 31.189	+2.5548	− 64	−24 5 55.30	−10.316	+ 47
309	γ Argus	2.22	O a p	8 7 20.631	+1.8488	− 12	−47 7 36.16	−10.578	− 4
311	20 Navis	5.05	G 5	8 10 4.187	+2.7580	− 8	−15 34 23.98	−10.781	− 6
310	Br. 1147	5.73	G 5	8 10 40.149	+7.5825	+ 58	+75 58 34.93	−10.802	+ 17
312	β Cancri	3.76	K 2	8 12 40.003	+3.2552	− 30	+ 9 24 19.86	−11.018	− 52
313	[*q* Puppis]	4.43	A 5	8 15 53.752	+2.2443	−104	−36 26 18.60	−11.112	+ 89
314	31 Lyncis	4.43	K 5	8 17 58.934	+4.1142	− 8	+43 25 2.06	−11.460	− 108
315	ε Argus	1.74	K 0 + B	8 21 3.559	+1.2336	− 32	−59 16 49.70	−11.558	+ 15
316	Br. 1197	3.95	A 0	8 22 6.837	+2.9990	− 41	− 3 40 25.35	−11.669	− 21
318	ϑ Chamael.	4.26	K 0	8 22 47.952	−1.7711	−458	−77 15 21.84	−11.666	+ 30
317	o Ursae maj.	3.47	G 0	8 24 22.900	+5.0000	−174	+60 57 26.07	−11.919	− 111
319	[β Volantis]	3.65	K 0	8 24 58.203	+0.6581	− 54	−65 53 59.40	−12.027	− 177

Nr. 287. Rektaszension der Mitte, Deklination des folgenden, helleren Sterns. Nr. 291. Ort des Schwerpunktes. Die Reduktion auf den Ort des hellen Sterns beträgt nach den Elementen von Auwers A. N. 3929

1929.0 $\Delta\alpha = +0^s.050$ $\Delta\delta = +0''.36$

1930.0 $= +0^s.056$ $= +0''.27$

Mittlere Sternörter 1929.0

Nr.	Name	Gr.	Spektrum	AR. 1929.0	Jährl. Veränderung	Jährl. Eigenbew. in 0s.0001	Dekl. 1929.0	Jährl. Veränderung	Jährl. Eigenbew. in 0".001
		M		h m s	s		° ′ ″	″	
320	Grb 1450	6.05	K 0	8 28 18.416	+3.9054	− 83	+38 15 40.49	−12.254	−170
321	η Cancri	5.52	K 0	8 28 36.385	+3.4724	− 26	+20 41 0.67	−12.155	− 50
322	[Grb 1446]	6.29	K 0	8 31 51.385	+6.7145	− 37	+73 52 48.36	−12.435	−104
323	[Grb 1460]	6.03	K 0	8 34 2.601	+4.4548	− 38	+52 57 42.61	−12.516	− 35
324	[e Velorum]	4.13	A 5	8 35 8.757	+2.1082	− 22	−42 44 24.34	−12.563	− 7
325	[6 Hydrae]	5.15	K 2	8 36 39.622	+2.8420	− 64	−12 13 24.33	−12.662	− 3
326	δ Cancri	4.17	K 0	8 40 39.203	+3.4120	− 9	+18 24 58.78	−13.164	−236
327	α Pyxidis	3.70	B 2	8 40 44.307	+2.4102	− 15	−32 55 46.53	−12.922	+ 12
328	ι Cancri	6.61 4.20	A 5 G 5	8 42 24.331	+3.6346	− 12	+29 1 14.80	−13.092	− 47
330	δ Argus	2.01	A 0	8 42 44.603	+1.6571	+ 22	−54 26 52.53	−13.160	− 93
329	[ε Hydrae]	3.48	F 8	8 43 1.085	+3.1789	− 126	+ 6 40 49.33	−13.136	− 50
331	[η Chamael.]	5.62	B 9	8 43 46.611	−1.9964	− 151	−78 42 22.07	−13.102	+ 34
332	[γ Pyxidis]	4.19	K 2	8 47 31.097	+2.5462	− 99	−27 26 44.13	−13.287	+ 94
333	[σ²Cancri med.]	5.60	K 0	8 49 55.061	+3.6646	+ 31	+30 50 57.79	−13.562	− 26
334	ζ Hydrae	3.30	K 0	8 51 38.553	+3.1730	− 64	+ 6 13 0.36	−13.635	+ 12
336	c Carinae	3.98	B 8	8 53 26.422	+1.3619	− 26	−60 22 21.62	−13.710	+ 52
335	ι Ursae maj.	3.12	A 5	8 54 21.378	+4.1163	− 437	+48 19 17.64	−14.067	−247
337	α Cancri	4.27	A 3	8 54 36.400	+3.2834	+ 26	+12 8 0.89	−13.871	− 35
339	10 Ursae maj.	4.09	F 5	8 56 2.352	+3.9019	− 383	+42 3 53.85	−14.190	−264
338	[ρ Ursae maj.]	4.99	M a	8 56 10.188	+5.4360	− 34	+67 54 28.58	−13.920	+ 15
341	κ Ursae maj.	3.68	A 0	8 58 47.261	+4.1045	− 27	+47 26 18.59	−14.163	− 65
340	[Grb 1501]	5.68	A 2	8 58 49.018	+4.4068	− 8	+54 33 54.21	−14.098	+ 3
343	α Volantis	4.18	A 5	9 1 19.808	+0.9510	− 8	−66 6 45.05	−14.369	−114
342	[c Velorum]	3.69	K 0	9 1 42.188	+2.0667	− 70	−46 48 52.43	−14.306	− 28
344	σ² Ursae maj.	4.87	F 8	9 4 10.282	+5.3022	− 16	+67 25 28.01	−14.497	− 67
345	λ Argus	2.22	K 5	9 5 22.936	+2.2050	− 33	−43 8 42.84	−14.493	+ 9
346	[36 Lyncis]	5.30	B 8	9 9 10.113	+3.9315	− 18	+43 30 41.46	−14.771	− 42
347	ϑ Hydrae	3.84	A 0	9 10 40.322	+3.1228	+ 89	+ 2 36 52.93	−15.131	−313
348	β Argus	1.80	A 0	9 12 25.696	+0.6655	− 303	−69 25 28.45	−14.824	+ 97
349	[38 Lyncis]	3.82	A 2	9 14 25.982	+3.7394	− 18	+37 6 14.72	−15.167	−129
350	*83 Cancri	6.60	F 5	9 15 1.324	+3.3512	− 80	+18 0 26.16	−15.207	−135
351	[ι Argus]	2.25	F 0	9 15 11.339	+1.6057	− 35	−58 58 36.70	−15.080	+ 2
352	40 Lyncis	3.30	K 5	9 16 44.136	+3.6597	− 178	+34 41 37.61	−15.158	+ 12
353	κ Argus	2.63	B 3	9 19 54.804	+1.8567	− 22	−54 42 24.91	−15.348	+ 2
354	α Hydrae	2.16	K 2	9 24 5.945	+2.9488	− 7	− 8 21 0.09	−15.551	+ 32
355	h Ursae maj.	3.75	F 0	9 25 57.161	+4.7493	+ 168	+63 22 24.88	−15.656	+ 28
356	[ε Antliae]	4.64	K 2	9 26 18.791	+2.4750	− 25	−35 38 24.87	−15.718	− 14
359	ψ Argus	3.64	F 5	9 27 54.092	+2.3612	− 172	−40 9 18.55	−15.716	+ 74
358	ϑ Ursae maj.	3.26	F 8 p	9 28 7.215	+4.0226	−1027	+52 0 6.92	−16.347	−545
357	d Ursae maj.	4.57	G 0	9 28 14.254	+5.3360	− 120	+70 8 37.77	−15.733	+ 75

Nr. 350. Größe aus Harvard 54 entnommen.

Nr.	Name	Gr.	Spektrum	AR. 1929.0	Jährl. Veränderung	Jährl. Eigenbew. in 0ˢ.0001	Dekl. 1929.0	Jährl. Veränderung	Jährl. Eigenbew. in 0″.001
		M		h m s	s		° ′ ″	″	
361	[N Velorum]	3.04	K 5	9 29 3.873	+1.8233	− 36	−56 43 14.01	−15.851	+ 1
360	10 Leon. min.	4.62	G 5	9 29 52.842	+3.6812	+ 13	+36 42 49.55	−15.922	− 26
362	[H. Carinae]	5.52	K 2	9 31 5.055	+0.4606	− 61	−72 45 57.41	−15.977	− 17
363	[Grb 1564]	5.74	K 0	9 36 12.043	+5.1649	−131	+69 33 42.92	−16.300	− 74
364	[κ Hydrae]	4.96	B 3	9 36 54.147	+2.8762	− 18	−14 0 33.49	−16.273	− 11
365	[ο Leonis]	3.76	F 5 + A 3	9 37 21.823	+3.2039	− 94	+10 12 58.19	−16.323	− 37
366	ϑ Antliae	4.98	F 5 p	9 41 2.130	+2.6734	− 40	−27 26 37.40	−16.436	+ 35
367	ε Leonis	3.12	G 0 p	9 41 49.520	+3.4088	− 31	+24 6 7.08	−16.528	− 17
369	υ Argus	3.15 6.03	F 0	9 45 19.682	+1.5006	− 21	−64 44 32.16	−16.684	− 1
368	υ Ursae maj.	3.89	F 0	9 45 57.468	+4.2811	−379	+59 22 25.41	−16.866	−154
370	6 Sextantis	6.00	A 2	9 47 39.410	+3.0238	+ 8	− 3 54 35.68	−16.824	− 30
371	[μ Leonis]	4.10	K 0	9 48 43.797	+3.4153	−162	+26 20 31.84	−16.902	− 56
373	[Hydrae 183 G.]	5.16	M a	9 51 31.287	+2.8303	− 25	−18 40 21.54	−17.043	− 66
372	Grb 1586	5.96	K 0	9 52 4.593	+5.4018	−179	+73 13 5.72	−17.047	− 45
374	[19 Leon. min.]	5.19	F 5	9 53 20.636	+3.6812	−100	+41 23 40.42	−17.087	− 27
375	[φ Argus]	3.70	B 5	9 54 22.049	+2.1042	− 21	−54 13 45.63	−17.110	− 2
377	[η Antliae]	5.25	F 0	9 55 49.349	+2.5721	− 83	−35 33 2.04	−17.198	− 24
376	[12 Sextantis]	6.63	A 5	9 56 2.189	+3.1129	− 47	+ 3 43 29.90	−17.156	+ 27
378	π Leonis	4.89	M a	9 56 27.809	+3.1719	− 21	+ 8 23 8.06	−17.227	− 25
379	η Leonis	3.58	A 0 p	10 3 27.880	+3.2729	− 2	+17 6 34.36	−17.515	− 6
380	α Leonis	1.34	B 8	10 4 35.595	+3.1970	−167	+12 18 53.35	−17.557	− 1
381	λ Hydrae	3.83	K 0	10 7 7.612	+2.9252	−134	−12 0 8.96	−17.749	− 87
382	q Velorum	4.09	A 2	10 11 45.074	+2.5145	−154	−41 46 10.61	−17.805	+ 45
385	[ω Argus]	3.56	B 8	10 12 3.290	+1.4321	− 29	−69 41 6.13	−17.862	0
384	ζ Leonis	3.65	F 0	10 12 44.728	+3.3399	+ 15	+23 46 18.54	−17.897	− 7
383	λ Ursae maj.	3.52	A 2	10 12 49.385	+3.6252	−148	+43 16 10.34	−17.941	− 49
386	μ Ursae maj.	3.21	K 5	10 18 6.432	+3.5808	− 70	+41 51 25.77	−18.072	+ 24
387	30 H. Urs. maj.	4.92	A 0	10 19 2.024	+4.3458	− 25	+65 55 34.61	−18.149	− 18
388	[25 Sextantis]	6.10	B 9	10 19 51.170	+3.0322	− 40	− 3 42 53.05	−18.163	− 2
389	μ Hydrae	4.06	K 5	10 22 39.366	+2.9015	− 85	−16 28 24.04	−18.345	− 82
391	J Carinae	4.08	F 5	10 22 59.323	+1.1927	− 67	−73 40 11.39	−18.292	− 17
390	31 Leon. min.	4.41	K 0	10 23 47.072	+3.4748	− 96	+37 4 17.93	−18.410	−106
392	Lac. α Antliae	4.42	K 5	10 23 54.035	+2.7435	− 62	−30 42 20.84	−18.298	+ 10
393	s Carinae	4.08	F 0	10 25 16.082	+2.1980	− 32	−58 22 35.55	−18.370	− 14
394	36 Ursae maj.	4.84	F 5	10 26 5.781	+3.8508	−216	+56 20 43.07	−18.418	− 33
396	[ρ Leonis]	3.85	B 0 p	10 29 4.471	+3.1603	− 6	+ 9 40 20.94	−18.493	− 5
395	9 H. Dracon.	5.04	G 5	10 29 6.589	+5.1458	− 96	+76 4 46.47	−18.493	− 4
397	[p Carinae]	3.58	B 5 p	10 29 29.817	+2.1313	− 18	−61 19 10.88	−18.497	+ 5
398	[37 Ursae maj.]	5.16	F 0	10 30 36.154	+3.8772	+ 83	+57 26 56.17	−18.503	+ 36
399	[44 Hydrae]	5.32	K 2	10 30 38.192	+2.8531	− 2	−23 22 43.76	−18.519	+ 21

Nr.	Name	Gr.	Spektrum	AR. 1929.0	Jährl. Veränderung	Jährl. Eigenbew. in 0s.0001	Dekl. 1929.0	Jährl. Veränderung	Jährl. Eigenbew. in 0".001
		M		h m s	s		° ' "	"	
400	*[p Velorum]	4.06	F 2 + A 3	10 34 18.682	+2.5152	−183	−47 51 23.72	−18.693	− 34
401	[γ Chamael.]	4.10	M a	10 34 38.701	+0.7257	−116	−78 14 21.09	−18.640	+ 30
402	[x Velorum]	4.37	G o	10 36 28.338	+2.3792	− 75	−55 13 59.98	−18.749	− 21
404	33 Sextantis	6.40	K o	10 37 47.504	+3.0523	− 94	− 1 22 4.46	−18.894	−125
403	[35 H.Urs. maj.]	5.23	K c	10 38 0.590	+4.3191	− 19	+69 26 53.32	−18.793	− 18
405	[41 Leon. min.]	5.05	A 2	10 39 33.577	+3.2652	− 80	+23 33 38.43	−18.810	+ 13
406	ϑ Argus	3.03	B o	10 40 25.191	+2.1370	− 26	−64 1 19.58	−18.844	+ 4
407	42 Leon. min.	5.37	B 9	10 41 55.340	+3.3403	− 15	+31 3 24.38	−18.930	− 37
408	μ Argus	2.84	G 5	10 43 42.580	+2.5747	+ 49	−49 2 41.22	−19.009	− 65
411	[δ² Chamael.]	4.62	B 3	10 45 8.432	+0.5875	−120	−80 9 55.88	−18.975	+ 9
409	l Leonis	5.27	A o	10 45 31.630	+3.1549	− 3	+10 55 16.62	−19.026	− 30
410	[ν Hydrae]	3.32	K o	10 46 7.233	+2.9595	+ 66	−15 49 18.33	−18.817	+194
412	[46 Leon. min.]	3.92	K o	10 49 20.823	+3.3601	+ 76	+34 35 53.08	−19.381	−282
414	[ι Antliae]	4.70	K o	10 53 24.327	+2.7931	+ 62	−36 45 20.90	−19.341	−137
413	[Br. 1508]	6.26	G 5	10 54 19.618	+4.8473	−258	+78 9 3.93	−19.253	− 26
415	i Velorum	4.56	A 2	10 56 53.563	+2.7495	+ 20	−41 50 41.25	−19.293	− 4
416	β Ursae maj.	2.44	A o	10 57 34.189	+3.6316	+101	+56 45 48.01	−19.279	+ 26
417	α Ursae maj.	1.95	K o	10 59 21.719	+3.7164	−174	+62 8 4.66	−19.418	− 72
418	χ Leonis	4.66	F o	11 1 21.361	+3.0957	−231	+ 7 43 12.78	−19.437	− 46
419	[χ Hydrae]	5.06	F 5	11 1 54.451	+2.8874	−154	−26 54 36.33	−19.411	− 7
420	ψ Ursae maj.	3.15	K o	11 5 40.783	+3.3797	− 57	+44 53 2.40	−19.520	− 36
421	β Crateris	4.52	A 2	11 8 9.817	+2.9491	o	−22 26 16.29	−19.631	− 98
422	δ Leonis	2.58	A 3	11 10 20.131	+3.1933	+106	+20 54 46.65	−19.712	−136
423	ϑ Leonis	3.41	A o	11 10 30.988	+3.1497	− 43	+15 49 4.52	−19.661	− 81
424	[Grb 1757]	5.97	K o	11 12 42.281	+3.3879	− 97	+49 51 50.12	−19.642	− 22
425	ν Ursae maj.	3.71	K o	11 14 38.949	+3.2450	− 16	+33 28 54.93	−19.631	+ 22
426	δ Crateris	3.82	K o	11 15 47.352	+2.9983	− 88	−14 23 38.80	−19.472	+200
427	σ Leonis	4.13	A o	11 17 28.583	+3.0944	− 62	+ 6 25 7.34	−19.712	− 12
428	π Centauri	4.26	B 5	11 17 45.742	+2.7304	− 41	−54 6 6.23	−19.718	− 13
429	Grb 1771	5.98	A o	11 18 39.158	+3.5795	− 10	+64 43 9.62	−19.685	+ 34
430	[ι Leonis]	4.03	F 5	11 20 13.452	+3.1280	+106	+10 55 13.61	−19.827	− 84
431	[γ Crateris]	4.14	A 5	11 21 19.965	+2.9959	− 72	−17 17 37.51	−19.753	+ 7
432	[58 Ursae maj.]	5.88	F 8	11 26 41.030	+3.2526	− 43	+43 33 47.09	−19.761	+ 72
433	λ Draconis	4.06	M a	11 27 12.618	+3.5806	− 80	+69 43 23.16	−19.861	− 21
434	ξ Hydrae	3.72	G 5	11 29 30.334	+2.9477	−167	−31 27 52.62	−19.910	− 43
435	[C² Centauri]	5.42	F o	11 32 28.640	+2.9010	+ 13	−47 14 51.76	−19.947	− 47
436	λ Centauri	3.34	B 9	11 32 29.802	+2.7581	− 58	−62 37 36.73	−19.917	− 17
437	υ Leonis	4.47	K o	11 33 18.801	+3.0718	+ 1	− 0 25 54.04	−19.873	+ 36
438	[π Chamael.]	5.74	F o	11 34 19.404	+2.4671	−280	−75 30 12.06	−19.924	− 5
439	[o Hydrae]	4.88	B 8	11 36 40.960	+2.9771	− 30	−34 21 3.67	−19.940	+ 1

Nr. 400. Doppelstern, Größe der Komponenten: 4.5 und 5.0

Nr.	Name	Gr.	Spektrum	AR. 1929.0	Jährl. Veränderung	Jährl. Eigenbew. in 0s.0001	Dekl. 1929.0	Jährl. Veränderung	Jährl. Eigenbew. in 0".001
		M		h m s	s		° ' "	"	
440	3 Draconis	5.48	K 0	11 38 31.747	+3.3616	— 78	+67 8 16.91	—19.917	+ 40
442	[λ Muscae]	3.80	A 5	11 42 14.700	+2.8216	—153	—66 20 6.47	—19.964	+ 20
441	χ Ursae maj.	3.85	K 0	11 42 18.531	+3.1747	—133	+48 10 23.14	—19.965	+ 20
443	[Centauri 65 G.]	4.22	G 0	11 43 4.209	+2.8940	— 25	—60 47 1.32	—20.025	— 35
444	β Leonis	2.23	A 2	11 45 26.386	+3.0615	—341	+14 58 8.45	—20.122	—118
445	β Virginis	3.80	F 8	11 46 59.813	+3.1252	+494	+ 2 9 53.44	—20.288	—276
446	[B Centauri]	4.71	K 0	11 47 35.175	+2.9900	—111	—44 46 43.21	—20.061	— 46
447	γ Ursae maj.	2.54	A 0	11 50 6.291	+3.1633	+107	+54 5 22.07	—20.023	+ 2
448	[ε Chamael.]	5.05	B 9	11 56 4.383	+2.9505	—162	—77 49 35.25	—20.050	— 9
449	[Centauri 88 G.]	5.28	F 0	11 59 58.435	+3.0994	+267	—42 2 11.56	—20.167	—122
450	o Virginis	4.24	G 5	12 1 35.588	+3.0566	—147	+ 9 7 37.91	—20.006	+ 38
451	[Grb 1852]	5.96	K 0	12 1 40.009	+3.0733	+436	+77 18 9.81	—20.140	— 96
452	δ Centauri	2.88	B 3 p	12 4 40.204	+3.1013	— 44	—50 19 37.28	—20.058	— 18
453	ε Corvi	3.21	K 0	12 6 28.182	+3.0832	— 51	—22 13 29.73	—20.026	+ 11
454	4 H. Draconis	5.12	A 5	12 8 53.664	+2.8310	+ 23	+78 0 38.62	—20.006	+ 23
455	[δ Crucis]	3.08	B 3	12 11 21.832	+3.1753	— 51	—58 21 15.06	—20.046	— 27
456	δ Ursae maj.	3.44	A 2	12 11 55.273	+2.9777	+136	+57 25 37.03	—20.015	+ 3
457	[γ Corvi]	2.78	B 8	12 12 9.111	+3.0835	—112	—17 8 52.19	—20.000	+ 17
458	[2 Can. ven.]	5.80	K 5	12 12 34.423	+3.0116	+ 26	+41 3 18.66	—20.059	— 45
459	β Chamael.	4.38	B 5	12 14 8.623	+3.4793	—143	—78 55 5.06	—19.994	+ 12
460	η Virginis	4.00	A 0	12 16 16.364	+3.0691	— 42	— 0 16 20.53	—20.017	— 23
461	[6 Can. ven.]	5.22	K 0	12 22 21.327	+2.9592	— 67	+39 24 44.52	—19.985	— 36
462	α Crucis med.	1.58 2.09	B 1	12 22 38.397	+3.3239	— 44	—62 42 22.30	—19.978	— 31
463	[Hydr. 323 G.]	5.68	A 0	12 23 6.836	+3.1570	— 14	—32 26 12.61	—19.991	— 49
464	[σ Centauri]	4.16	B 3	12 24 11.471	+3.2361	— 36	—49 50 15.60	—19.965	— 33
466	20 Comae	5.72	A 2	12 26 9.373	+3.0161	+ 26	+21 17 20.53	—19.953	— 39
465	δ Corvi	3.11	A 0	12 26 11.266	+3.1024	—145	—16 7 13.22	—20.056	—142
467	[74 Ursae maj.]	5.44	A 5	12 26 38.763	+2.8073	— 96	+58 47 46.29	—19.821	+ 88
468	[γ Crucis]	1.61	M b	12 27 12.925	+3.3166	+ 26	—56 42 57.29	—20.181	—278
469	[γ Muscae]	4.04	B 5	12 28 12.286	+3.5619	— 82	—71 44 27.99	—19.914	— 22
470	8 Can. ven.	4.32	G 0	12 30 22.532	+2.8529	—624	+41 44 34.67	—19.589	+280
472	κ Draconis	3.88	B 5 p	12 30 27.750	+2.5698	—117	+70 10 45.77	—19.860	+ 7
471	β Corvi	2.84	G 5	12 30 39.181	+3.1481	— 4	—23 0 15.61	—19.924	— 59
473	24 Comae seq.	5.18	K 0	12 31 34.200	+3.0107	+ 2	+18 46 3.68	—19.836	+ 18
474	α Muscae	2.94	B 3	12 32 55.863	+3.5592	— 56	—68 44 40.96	—19.870	— 32
475	[χ Virginis]	4.78	K0	12 35 34.802	+3.0955	— 49	— 7 36 18.64	—19.840	— 37
476	γ Centauri	2.38	A 0	12 37 35.452	+3.2996	—205	—48 34 12.50	—19.795	— 20
477	[γ Virgin. med.]	3.65 3.68	F 0 F 0	12 38 3.687	+3.0394	—375	— 1 3 37.11	—19.763	+ 5
478	76 Ursae maj.	5.92	A 0	12 38 28.263	+2.6283	— 45	+63 6 9.52	—19.779	— 17
479	[Hydr. 330 G.]	5.73	K 2	12 40 13.171	+3.1940	— 26	—27 56 4.85	—19.786	— 50

Mittlere Sternörter 1929.0

Nr.	Name	Gr.	Spektrum	AR. 1929.0	Jährl. Veränderung	Jährl. Eigenbew. in 0s.0001	Dekl. 1929.0	Jährl. Veränderung	Jährl. Eigenbew. in 0".001
		M		h m s	s		° ′ ″	″	
480	[β Muscae]	3.26	B 3	12 41 54.425	+3.6606	— 53	—67 43 11.29	—19.741	— 31
481	β Crucis	1.50	B 1	12 43 33.512	+3.4921	— 59	—59 18 3.42	—19.710	— 27
482	*n* Centauri	4.34	A 5	12 49 29.764	+3.3159	+ 45	—39 47 35.60	—19.616	— 37
483	ε Ursae maj.	1.68	A 0 p	12 50 54.682	+2.6443	+137	+56 20 41.60	—19.563	— 11
484	δ Virginis	3.66	M a	12 52 1.570	+3.0215	—315	+ 3 46 58.29	—19.593	— 63
486	8 Draconis	5.27	F 0	12 52 39.298	+2.3935	— 15	+65 49 24.06	—19.551	— 34
485	12 Can. ven. sq.	2.90	A 0 p	12 52 42.587	+2.8089	—199	+38 42 5.26	—19.466	+ 50
487	[δ Muscae]	3.63	K 2	12 57 21.421	+4.0962	+530	—71 9 59.03	—19.456	— 36
488	ε Virginis	2.95	K 0	12 58 38.554	+2.9866	—185	+11 20 25.39	—19.374	+ 18
489	[ξ² Centauri]	4.40	B 3	13 2 45.291	+3.4929	— 35	—49 31 35.51	—19.327	— 30
490	ϑ Virginis	4.44	A 0	13 6 16.301	+3.1049	— 24	— 5 9 37.52	—19.252	— 39
491	[17 Can. ven.]	6.04	F 0	13 6 47.781	+2.7574	— 59	+38 52 32.70	—19.167	+ 32
492	43 Comae	4.32	G 0	13 8 33.714	+2.8012	—602	+28 14 15.47	—18.276	+878
493	[η Muscae]	4.95	B 8	13 10 24.996	+4.0462	— 33	—67 31 8.30	—19.135	— 30
494	[20 Can. ven.]	4.66	F 0	13 14 21.715	+2.6925	—107	+40 56 45.02	—18.990	+ 8
495	γ Hydrae	3.33	G 5	13 15 3.451	+3.2587	+ 51	—22 47 51.11	—19.033	— 53
496	ι Centauri	2.91	A 2	13 16 35.872	+3.3660	—294	—36 20 17.99	—19.027	— 92
497	ζ Urs. maj. pr.	2.40	A 2 p	13 21 4.231	+2.4188	+143	+55 17 44.61	—18.829	— 25
498	α Virginis	1.21	B 2	13 21 26.979	+3.1587	— 28	—10 47 28.53	—18.825	— 33
499	Grb 2001	6.07	K 5	13 24 19.294	+1.5275	+ 35	+72 45 35.44	—18.718	— 15
500	69 H. Urs. maj.	5.41	A 0	13 25 50.921	+2.2043	—109	+60 18 43.61	—18.617	+ 37
501	ζ Virginis	3.44	A 2	13 31 4.419	+3.0559	—190	— 0 14 0.70	—18.448	+ 35
502	17 H. Can. ven.	4.96	F 0	13 31 37.691	+2.6795	+ 64	+37 32 44.24	—18.477	— 13
503	[Chamael. 49 G.]	6.44	A 0	13 33 4.647	+5.0834	— 49	—75 19 20.90	—18.428	— 14
504	ε Centauri	2.56	B 1	13 35 22.547	+3.7888	— 37	—53 6 22.31	—18.367	— 34
505	[Grb 2029]	5.67	K 0	13 35 28.495	+1.4385	— 86	+71 36 11.91	—18.330	0
506	[*i* Centauri]	4.36	F 5	13 41 38.771	+3.4037	—371	—32 41 7.38	—18.261	—156
507	τ Bootis	4.51	F 5	13 43 53.285	+2.8509	—340	+17 48 35.75	—17.992	+ 28
509	η Ursae maj.	1.91	B 3	13 44 44.736	+2.3664	—119	+49 40 1.40	—18.007	— 20
508	[μ Centauri]	3.32	B 2 p	13 45 19.810	+3.6060	— 28	—42 7 14.09	—17.984	— 19
510	89 Virginis	5.11	K 0	13 46 0.597	+3.2572	— 69	—17 46 52.02	—17.976	— 38
511	[ι Draconis]	4.77	M a	13 49 21.516	+1.7524	0	+65 4 25.15	—17.808	— 2
512	ζ Centauri	3.06	B 2 p	13 51 5.946	+3.7322	— 70	—46 56 23.01	—17.796	— 61
513	η Bootis	2.80	G 0	13 51 18.249	+2.8570	— 41	+18 45 10.64	—18.090	—364
514	[Cent. 294 G.]	4.68	K 0	13 52 29.482	+4.3228	— 46	—63 20 21.93	—17.713	— 35
515	[47 Hydrae]	5.17	B 8	13 54 31.820	+3.3630	— 34	—24 37 35.32	—17.633	— 40
517	11 Bootis	6.12	A 3	13 57 57.377	+2.7214	— 57	+27 43 43.70	—17.440	+ 8
516	τ Virginis	4.34	A 2	13 58 1.897	+3.0524	+ 13	+ 1 53 14.40	—17.474	— 30
518	β Centauri	0.86	B 1	13 58 47.778	+4.2182	— 28	—60 1 53.51	—17.451	— 40
519	[π Hydrae]	3.48	K 0	14 2 19.353	+3.4124	+ 30	—26 20 28.37	—17.409	—153

Nr.	Name	Gr.	Spektrum	AR. 1929.0	Jährl. Veränderung	Jährl. Eigenbew. in 0s.0001	Dekl. 1929.0	Jährl. Veränderung	Jährl. Eigenbew. in 0".001
		M		h m s	s		° ' "	"	
520	ϑ Centauri	2.26	K o	14 2 29.761	+3.5239	— 439	−36 1 17.61	−17.779	— 530
521	α Draconis	3.64	A o p	14 2 27.957	+1.6239	— 83	+64 42 53.28	−17.234	+ 16
522	*d* Bootis	4.82	F 5	14 7 9.700	+2.7370	— 12	+25 25 38.14	−17.107	— 69
524	4 Ursae min.	5.00	K o	14 9 5.749	−0.2614	— 113	+77 52 52.20	−16.916	+ 32
523	κ Virginis	4.31	K o	14 9 6.315	+3.1984	+ 4	− 9 56 38.55	−16.813	+ 134
525	ι Virginis	4.16	F 5	14 12 17.298	+3.1438	— 13	− 5 39 45.11	−17.228	— 431
526	α Bootis	0.24	K o	14 12 25.338	+2.7361	— 776	+19 33 4.79	−18.791	−2001
528	[ι Bootis]	4.78	A 5	14 13 39.148	+2.1254	— 159	+51 41 38.86	−16.646	+ 86
527	λ Bootis	4.26	A o	14 13 41.158	+2.2819	— 177	+46 24 49.13	−16.578	+ 152
529	[υ Centauri]	4.41	B 5	14 15 20.954	+4.1739	— 47	−56 3 38.43	−16.689	— 39
530	[Circini 10 G.]	5.71	A 2 p	14 19 11.299	+4.9443	— 41	−67 52 25.97	−16.496	— 36
531	ϑ Bootis	4.06	F 8	14 22 46.820	+2.0429	— 256	+52 10 41.85	−16.683	— 404
532	[52 Hydrae]	5.00	B 8	14 24 0.513	+3.5085	— 28	−29 10 24.65	−16.246	— 30
533	[φ Virginis]	4.97	K o	14 24 32.528	+3.0902	— 90	− 1 54 38.01	−16.196	— 7
534	ρ Bootis	3.78	K o	14 28 46.229	+2.5860	— 76	+30 40 56.24	−15.855	+ 113
535	γ Bootis	3.00	F o	14 29 13.188	+2.4166	— 93	+38 37 5.01	−15.799	+ 144
536	[Grb 2125]	6.18	F o	14 29 47.127	+1.6287	— 58	+60 32 16.81	−15.895	+ 18
537	η Centauri	2.65	B 3 p + A2p	14 30 59.385	+3.8019	— 36	−41 50 49.12	−15.886	— 36
538	*α Centauri	0.33 1.70	G o K 5	14 34 45.754	+4.0638	—4881	−60 32 36.35	−14.935	+ 710
540	[33 Bootis]	5.39	A o	14 36 11.704	+2.2328	— 67	+44 42 36.94	−15.592	— 26
539	[α Circini]	3.41	F o	14 36 44.675	+4.8245	— 320	−64 40 1.97	−15.775	— 239
541	[α Lupi]	2.89	B 2	14 37 11.841	+3.9812	— 20	−47 5 4.82	−15.547	— 36
543	ζ Bootis med.	4.83 4.43	A 2	14 37 45.448	+2.8644	+ 37	+14 1 54.91	−15.507	— 27
542	α Apodis	3.81	K 5	14 38 57.087	+7.3601	— 56	−78 44 43.90	−15.448	— 35
544	[c¹ Centauri]	4.13	K o	14 39 18.433	+3.6631	— 61	−34 52 8.84	−15.592	— 198
545	μ Virginis	3.95	F 5	14 39 18.943	+3.1599	+ 69	− 5 21 1.94	−15.720	— 326
546	[*b* Lupi]	5.20	K o	14 42 2.577	+4.1848	— 24	−52 5 3.30	−15.332	— 92
547	109 Virginis	3.76	A o	14 42 39.456	+3.0321	— 75	+ 2 11 27.66	−15.244	— 39
548	α Librae	2.90	A 3	14 46 56.791	+3.3160	— 77	−15 44 52.02	−15.031	— 74
549	Grb 2164	5.67	K 2	14 49 38.120	+1.5209	— 170	+59 34 54.85	−14.670	+ 129
550	β Ursae min.	2.24	K 5	14 50 53.588	−0.1921	— 78	+74 26 44.38	−14.719	+ 7
551	Pi XIV, 221	5.77	A o	14 52 52.102	+2.8312	— 10	+14 43 55.74	−14.626	— 18
552	β Lupi	2.81	B 2 p	14 53 52.282	+3.9205	— 51	−42 50 57.43	−14.608	— 60
553	[κ Centauri]	3.35	B 3	14 54 32.029	+3.8958	— 21	−41 49 13.85	−14.541	— 33
554	[2 H. Urs. min.]	4.86	M b	14 56 26.839	+0.9477	— 147	+66 12 53.94	−14.358	+ 34
555	β Bootis	3.63	G 5	14 59 16.293	+2.2600	— 36	+40 40 10.92	−14.261	— 43
556	γ Scorpii	3.41	M b	14 59 54.557	+3.5077	— 57	−25 0 14.95	−14.235	— 55
557	ψ Bootis	4.67	K o	15 1 24.183	+2.5707	— 131	+27 13 24.71	−14.102	— 15
558	ζ Lupi	3.50	K o	15 7 10.293	+4.2987	— 133	−51 49 49.12	−13.796	— 73
559	[ι Librae]	4.66	A o p	15 8 10.180	+3.4165	— 32	−19 31 27.20	−13.707	— 47

Nr. 538. Schwerpunkt des Systems. Abstand vom Schwerpunkt nach den Elementen von Lohse in den Publ. d. Astrophys. Obs. Potsdam No. 58

heller Stern: 1929.0 $\Delta\alpha = +0^s.388$ $\Delta\delta = +1''.26$

1930.0 $= +0.361$ $= +0.88$

Nr.	Name	Gr.	Spektrum	AR. 1929.0	Jährl. Veränderung	Jährl. Eigenbew. in 0^s.0001	Dekl. 1929.0	Jährl. Veränderung	Jährl. Eigenbew. in 0".001
		M		h m s	s		° ' "	"	
562	[3 Serpentis]	5.44	K 0	15 11 39.503	+2.9813	− 12	+ 5 12 6.54	−13.441	− 7
561	[β Circini]	4.16	A 3	15 11 56.390	+4.6824	−130	−58 32 15.21	−13.565	− 149
560	γ Triang. austr.	3.06	A 0	15 12 15.299	+5.5759	−101	−68 25 8.50	−13.432	− 37
563	δ Bootis	3.54	K 0	15 12 38.423	+2.4192	+ 73	+33 34 43.58	−13.492	− 121
564	β Librae	2.74	B 8	15 13 11.007	+3.2266	− 64	− 9 7 19.55	−13.362	− 27
565	1 H. Urs. min.	5.23	G 0	15 13 48.992	+0.6831	+387	+67 36 57.78	−13.689	− 395
566	φ¹ Lupi	3.59	K 5	15 17 17.621	+3.8011	− 82	−36 0 18.46	−13.159	− 95
569	γ Ursae min.	3.14	A 2	15 20 49.632	−0.1067	− 32	+72 5 11.85	−12.813	+ 16
568	μ Bootis	4.47 6.66	F 0 K 0	15 21 48.467	+2.2663	−123	+37 37 31.05	−12.682	+ 80
570	[τ¹ Serpentis]	5.46	M a	15 22 29.751	+2.7819	− 11	+15 40 35.54	−12.740	− 24
571	ι Draconis	3.47	K 0	15 23 20.868	+1.3333	− 5	+59 12 51.37	−12.644	+ 14
567	[κ¹ Apodis]	5.65	B 5 p	15 23 44.168	+6.4981	+ 5	−73 8 43.74	−12.670	− 37
572	β Coron. bor.	3.72	F 0 p	15 24 54.095	+2.4739	−131	+29 20 58.07	−12.477	+ 76
573	ν¹ Bootis	5.15	K 5	15 28 22.717	+2.1550	+ 10	+41 4 27.25	−12.327	− 13
576	[ϑ Coron. bor.]	4.17	B 5	15 30 3.959	+2.4188	− 17	+31 35 51.69	−12.224	− 26
574	[ε Triang. austr.]	4.11	K 0	15 30 11.941	+5.4675	+ 29	−66 4 48.89	−12.270	− 82
575	γ Lupi	2.95	B 3	15 30 24.050	+3.9908	− 26	−40 55 46.34	−12.214	− 39
577	γ Librae	4.02	K 0	15 31 33.069	+3.3539	+ 43	−14 33 14.12	−12.091	+ 3
578	α Coron. bor.	2.31	A 0	15 31 40.875	+2.5400	+ 93	+26 57 9.40	−12.183	− 98
579	[3 H. Scorpii]	3.78	K 2	15 32 42.512	+3.6381	− 11	−27 54 4.62	−12.024	− 11
580	[φ Bootis]	5.41	G 5	15 35 16.598	+2.1548	+ 58	+40 35 1.32	−11.781	+ 52
581	[γ Coron. bor.]	3.93	A 0	15 39 45.654	+2.5197	− 74	+26 31 10.04	−11.480	+ 34
582	α Serpentis	2.75	K 0	15 40 46.152	+2.9541	+ 91	+ 6 38 52.32	−11.399	+ 42
583	β Serpentis	3.74	A 2	15 42 54.600	+2.7687	+ 51	+15 38 34.33	−11.342	− 54
584	κ Serpentis	4.28	K 5	15 45 32.588	+2.7004	− 31	+18 21 34.86	−11.195	− 98
587	[12 H. Dracon.]	5.13	A 2	15 45 34.767	+0.9111	+ 55	+62 48 6.82	−11.155	− 61
585	μ Serpentis	3.63	A 0	15 45 54.751	+3.1295	− 59	− 3 12 51.07	−11.101	− 32
586	[χ Lupi]	4.11	B 9	15 46 26.446	+3.8074	− 15	−33 24 43.83	−11.061	− 30
590	ζ Ursae min.	4.34	A 2	15 46 33.288	−2.1782	+ 60	+78 0 49.41	−11.023	− 1
588	ε Serpentis	3.75	A 2	15 47 16.503	+2.9895	+ 84	+ 4 41 24.95	−10.911	+ 59
589	β Triang. austr.	3.04	F 0	15 48 52.194	+5.2704	−278	−63 12 48.30	−11.260	− 407
591	[γ Serpentis]	3.86	F 5	15 53 10.340	+2.7705	+213	+15 53 31.68	−11.829	−1294
592	[π Scorpii]	3.00	B 2	15 54 33.099	+3.6257	− 15	−25 54 40.39	−10.469	− 37
593	ε Coron. bor.	4.22	K 0	15 54 38.821	+2.4831	− 61	+27 4 56.67	−10.493	− 68
595	[Grb 2296]	4.96	A 5	15 56 6.175	+1.4209	−187	+54 56 59.23	−10.205	+ 111
594	δ Scorpii	2.54	B 0	15 56 7.875	+3.5448	− 8	−22 25 16.05	−10.350	− 36
598	ϑ Draconis	4.11	F 8	16 0 33.377	+1.1225	−402	+58 45 15.98	− 9.641	+ 339
597	β Scorpii	2.90 5.06	B 1	16 1 18.284	+3.4858	− 7	−19 36 45.11	− 9.950	− 27
596	[δ Normae]	4.84	A 3 p	16 1 27.904	+4.2331	− 5	−44 58 56.57	− 9.905	+ 6
599	[ϑ Lupi]	4.33	B 3	16 1 55.388	+3.9339	− 29	−36 36 37.89	− 9.917	− 41

Nr.	Name	Gr.	Spektrum	AR. 1929.0	Jährl. Veränderung	Jährl. Eigenbew. in 0ˢ.0001	Dekl. 1929.0	Jährl. Veränderung	Jährl. Eigenbew. in 0″.001
		M		h m s	s		° ′ ″	″	
601	[φ Herculis]	4.26	B 9 p	16 6 31.906	+1.8898	— 23	+45 7 12.71	—9.492	+ 31
600	[ϰ Normae]	5.09	K o	16 7 51.948	+4.7192	— 42	—54 26 56.31	—9.486	— 65
602	[δ Triang. austr.]	4.03	G o	16 8 57.607	+5.4460	+ 8	—63 30 22.70	—9.362	— 26
603	δ Ophiuchi	3.03	M a	16 10 37.365	+3.1427	— 30	— 3 30 46.23	—9.357	—150
606	19 Ursae min.	5.51	B 8	16 12 49.444	—1.7320	— 4	+76 3 25.21	—9.023	+ 12
604	γ^2 Normae	4.14	K o	16 14 31.046	+4.4798	—190	—49 58 59.00	—8.964	— 61
605	ε Ophiuchi	3.34	K o	16 14 33.735	+3.1728	+ 53	— 4 31 14.93	—8.868	+ 31
607	[σ Scorpii]	3.08	B 1	16 16 52.125	+3.6437	— 11	—25 25 26.38	—8.752	— 33
608	τ Herculis	3.91	B 5	16 17 36.335	+1.8029	— 9	+46 28 53.84	—8.628	+ 32
609	γ Herculis	3.79	F o	16 18 47.207	+2.6457	— 36	+19 19 7.44	—8.527	+ 40
612	[η Ursae min.]	5.04	F o	16 19 33.412	—1.7732	—219	+75 55 10.83	—8.250	+256
610	[ζ Triang. austr.]	4.93	G o	16 20 48.363	+6.4292	+366	—69 55 36.86	—8.323	+ 84
613	[ω Herculis]	4.53	A o p	16 22 8.280	+2.7680	+ 28	+14 11 43.59	—8.370	— 68
611	γ Apodis	3.90	K o	16 22 30.234	+9.1487	—384	—78 44 27.90	—8.344	— 71
614	[Grb 2343]	5.66	A 2	16 22 52.067	+1.3114	+ 19	+55 21 57.44	—8.225	+ 18
615	η Draconis	2.89	G 5	16 23 1.519	+0.8096	— 28	+61 40 28.50	—8.170	+ 61
616	α Scorpii	1.22	M a + A 3	16 25 3.017	+3.6761	— 7	—26 16 33.51	—8.097	— 28
618	β Herculis	2.81	K o	16 27 10.010	+2.5786	— 69	+21 38 35.38	—7.920	— 21
617	[λ Ophiuchi]	3.85	A o	16 27 19.841	+3.0247	— 23	+ 2 8 16.34	—7.976	— 90
619	*A* Draconis	4.98	B 8 p	16 28 6.786	—0.1243	— 51	+68 55 18.45	—7.788	+ 35
620	[τ Scorpii]	2.91	B o	16 31 27.506	+3.7319	— 11	—28 4 13.12	—7.586	— 33
621	σ Herculis	4.25	A o	16 31 48.812	+1.9340	— 6	+42 34 57.25	—7.485	+ 38
622	ζ Ophiuchi	2.70	B o	16 33 14.822	+3.3022	+ 9	—10 25 28.86	—7.385	+ 22
623	[Grb 2373]	6.39	G 5	16 33 40.184	—2.6056	—321	+77 35 19.86	—7.099	+275
624	[24 Scorpii]	5.04	K o	16 37 27.826	+3.4679	— 18	—17 36 22.20	—7.066	— 3
626	η Herculis	3.61	K o	16 40 27.680	+2.0567	+ 35	+39 3 23.11	—6.902	— 84
625	α Triang. austr.	1.88	K 2	16 41 7.724	+6.3361	+ 32	—68 53 59.85	—6.812	— 49
627	Grb 2377	4.88	F o	16 43 56.898	+1.1371	+ 28	+56 54 29.30	—6.472	+ 58
628	ε Scorpii	2.36	K o	16 45 33.595	+3.8824	—501	—34 9 57.19	—6.652	—255
629	49 Herculis	6.41	A o p	16 48 50.849	+2.7310	+ 12	+15 5 31.43	—6.130	— 6
630	ζ^2 Scorpii	3.75	K 5	16 49 34.844	+4.2161	—134	—42 14 29.16	—6.300	—238
631	ζ Arae	3.06	K 5	16 52 44.213	+4.9578	— 30	—55 52 48.15	—5.846	— 48
632	[ε^1 Arae]	4.15	K 2	16 53 54.998	+4.7744	— 19	—53 3 12.39	—5.708	— 8
633	ϰ Ophiuchi	3.42	K o	16 54 18.383	+2.8389	—198	+ 9 29 2.86	—5.680	— 13
634	ε Herculis	3.92	A o	16 57 34.349	+2.2952	— 35	+31 1 47.66	—5.369	+ 24
635	[60 Herculis]	4.91	A 3	17 2 5.083	+2.7814	+ 34	+12 50 13.38	—5.026	— 15
636	[Grb 2415]	6.27	A 2	17 5 27.726	+1.9566	— 29	+40 36 28.87	—4.753	— 28
637	η Ophiuchi	2.63	A 2	17 6 18.240	+3.4390	+ 23	—15 38 18.62	—4.563	+ 90
638	[η Scorpii]	3.44	F 2	17 7 3.832	+4.2939	+ 17	—43 8 50.64	—4.887	—298
639	ζ Draconis	3.22	B 5	17 8 34.644	+0.1709	— 29	+65 48 7.15	—4.438	+ 22

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				h m s	s		° ′ ″	″	
640	α Herculis	M 3.48 5.39	M b	17 11 24.543	+2.7350	− 8	+14 28 11.90	−4.189	+ 29
641	δ Herculis	3.16	A 2	17 12 6.877	+2.4640	− 15	+24 55 18.56	−4.316	−159
643	π Herculis	3.36	K 5	17 12 34.411	+2.0893	− 21	+36 53 17.57	−4.117	+ 1
642	[ι Apodis]	5.60	B 8	17 14 9.951	+6.6798	− 14	−70 3 4.63	−4.008	− 27
644	ϑ Ophiuchi	3.37	B 3	17 17 38.800	+3.6828	− 7	−24 55 48.86	−3.708	− 25
645	β Arae	2.80	K 2	17 19 23.568	+4.9829	− 14	−55 27 53.74	−3.575	− 42
646	[*d* Ophiuchi]	4.37	F 5	17 22 49.067	+3.8289	+ 6	−29 48 15.84	−3.383	−145
647	[27 H. Ophiuchi]	4.61	F 0	17 22 51.792	+3.1830	− 58	− 5 1 31.05	−3.285	− 51
648	δ Arae	3.79	B 8	17 24 41.080	+5.4119	− 70	−60 37 36.31	−3.178	−101
650	[*x* Herculis]	5.81	A 2	17 24 51.283	+1.5899	+ 2	+48 19 7.37	−3.080	− 19
649	[υ Scorpii]	2.80	B 3	17 25 55.913	+4.0751	− 24	−37 14 27.35	−3.008	− 39
651	α Arae	2.97	B 3 p	17 26 20.963	+4.6345	− 38	−49 49 19.10	−3.026	− 94
652	λ Scorpii	1.71	B 2	17 28 47.042	+4.0711	− 14	−37 3 13.33	−2.754	− 32
653	β Draconis	2.99	G 0	17 28 49.656	+1.3551	− 15	+52 21 11.77	−2.708	+ 10
655	[ν^1 Draconis]	4.98	A 5	17 30 46.637	+1.1811	+176	+55 13 55.76	−2.498	+ 51
657	[ν^2 Draconis]	4.95	A 5	17 30 52.063	+1.1824	+181	+55 13 14.58	−2.489	+ 52
656	α Ophiuchi	2.14	A 5	17 31 38.259	+2.7842	+ 80	+12 36 37.40	−2.708	−233
654	ϑ Scorpii	2.04	F 0	17 32 12.812	+4.3079	0	−42 57 16.50	−2.442	− 18
659	[*f* Draconis]	5.21	K 0	17 32 14.673	−0.2436	− 33	+68 10 49.28	−2.288	+134
658	ξ Serpentis	3.64	A 5	17 33 31.168	+3.4339	− 34	−15 21 19.42	−2.375	− 65
664	ω Draconis	4.87	F 5	17 37 21.860	−0.3529	+ 11	+68 47 27.37	−1.653	+323
663	ι Herculis	3.79	B 3	17 37 27.591	+1.6932	− 5	+46 2 35.50	−1.972	− 4
660	[κ Scorpii]	2.51	B 2	17 37 34.398	+4.1481	− 15	−38 59 42.25	−1.985	− 26
662	[μ Arae]	5.26	G 5	17 38 30.236	+4.7606	− 29	−51 47 53.82	−2.085	−208
661	η Pavonis	3.58	K 0	17 38 45.557	+5.8845	− 22	−64 41 31.70	−1.911	− 56
665	β Ophiuchi	2.94	K 0	17 39 57.854	+2.9631	− 27	+ 4 35 43.96	−1.597	+153
666	[ι^1 Scorpii]	3.14	F 5 p	17 42 36.965	+4.1939	− 10	−40 6 4.09	−1.522	− 3
670	ψ Draconis	4.90 6.07	F 5	17 43 11.800	−1.0710	+ 31	+72 11 2.98	−1.735	−267
667	μ Herculis	3.48	G 5	17 43 40.710	+2.3472	−241	+27 45 39.98	−2.177	−751
668	[γ Ophiuchi]	3.74	A 0	17 44 19.910	+3.0077	− 16	+ 2 43 57.37	−1.446	− 77
669	[*G* Scorpii]	3.25	K 2	17 45 1.423	+4.0827	+ 41	−37 1 20.63	−1.283	+ 26
671	ξ Draconis	3.90	K 0	17 52 18.049	+1.0375	+120	+56 52 59.81	−0.597	+ 77
675	35 Draconis	5.04	F 5	17 52 37.477	−2.6888	+113	+76 58 24.08	−0.404	+241
672	ϑ Herculis	3.99	K 0	17 53 49.052	+2.0572	+ 4	+37 15 32.27	−0.536	+ 5
676	γ Draconis	2.42	K 5	17 54 57.412	+1.3927	− 9	+51 29 47.61	−0.463	− 22
674	[ξ Herculis]	3.82	K 0	17 55 0.324	+2.3312	+ 66	+29 15 15.65	−0.462	− 25
673	ν Ophiuchi	3.50	K 0	17 55 7.016	+3.3021	− 7	− 9 45 58.74	−0.545	−118
677	67 Ophiuchi	3.92	B 5 p	17 57 5.312	+3.0044	0	+ 2 56 0.98	−0.268	− 13
679	γ Sagittarii	3.07	K 0	18 1 14.748	+3.8530	− 47	−30 25 35.99	−0.085	−194
678	[Apodis 66 G.]	5.69	K 5	18 1 19.421	+8.3869	− 44	−75 53 46.43	−0.154	−270

Nr.	Name	Gr.	Spektrum	AR. 1929.0	Jährl. Veränderung	Jährl. Eigenbew. in 0s.0001	Dekl. 1929.0	Jährl. Veränderung	Jährl. Eigenbew. in 0".001
		M		h m s	s		° ′ ″	″	
680	72 Ophiuchi	3.73	A 3	18 3 58.982	+2.8439	— 42	+ 9 33 8.81	+0.427	+ 78
681	o Herculis	3.83	A 0	18 4 46.349	+2.3401	+ 2	+28 45 5.56	+0.417	0
682	μ Sagittarii	4.01	B 8 p	18 9 31.001	+3.5872	— 3	—21 4 44.48	+0.829	— 3
683	[η Sagittarii]	3.16	M b	18 12 49.315	+4.0587	— 117	—36 47 4.73	+0.958	—163
684	[Grb 2533]	5.42	B 5	18 13 26.227	+1.8655	— 6	+42 8 3.00	+1.168	— 7
685	[36 Draconis]	5.03	F 5	18 13 29.277	+0.3453	+ 533	+64 22 22.86	+1.209	+ 30
687	[δ Sagittarii]	2.84	K 0	18 16 26.909	+3.8408	+ 27	—29 51 35.68	+1.405	— 32
686	[ξ Pavonis]	4.25	K 2	18 16 40.976	+5.5278	— 26	—61 31 41.18	+1.475	+ 17
688	η Serpentis	3.42	K 0	18 17 38.124	+3.1036	— 372	— 2 55 7.17	+0.842	—699
689	ε Sagittarii	1.95	A 0	18 19 27.554	+3.9822	— 30	—34 25 11.33	+1.573	—127
690	109 Herculis	3.92	K 0	18 20 40.319	+2.5563	+ 140	+21 44 10.05	+1.549	—257
691	α Telescopii	3.76	B 3	18 21 42.544	+4.4487	— 21	—46 0 33.32	+1.848	— 48
693	[φ Draconis]	4.24	A 0 p	18 21 46.648	—0.8590	— 17	+71 18 1.22	+1.935	+ 33
695	χ Draconis	3.69	F 8	18 22 20.306	—1.0808	+1170	+72 42 8.85	+1.588	—363
694	b Draconis	4.85	A 2	18 22 52.440	+0.8764	— 45	+58 45 32.75	+2.056	+ 58
692	[λ Sagittarii]	2.94	K 0	18 23 35.317	+3.7021	— 37	—25 27 45.10	+1.872	—188
696	[2 H. Scuti]	4.73	A 3	18 25 9.030	+3.4189	— 3	—14 36 44.86	+2.198	+ 2
697	[ϑ Coron. austr.]	4.69	G 5	18 28 25.954	+4.2837	+ 15	—42 21 55.48	+2.457	— 24
700	[Grb 2655]	5.84	K 0	18 33 11.338	—2.8891	— 10	+77 29 34.28	+2.890	— 3
699	α Lyrae	0.14	A 0	18 34 32.058	+2.0314	+ 176	+38 42 59.78	+3.290	+281
698	ζ Pavonis	4.10	K 0	18 34 44.823	+7.0166	— 24	—71 29 31.09	+2.850	—178
701	[Grb 2640]	6.00	A 3	18 35 59.948	+0.1886	+ 18	+65 25 30.15	+3.220	+ 84
702	[5 H. Scuti]	5.09	G 5	18 39 39.254	+3.2673	+ 13	— 8 20 48.24	+3.460	+ 9
703	110 Herculis	4.26	F 5	18 42 36.333	+2.5813	— 12	+20 28 37.72	+3.365	—340
704	λ Pavonis	4.42	B 2	18 45 38.553	+5.5622	— 25	—62 16 16.41	+3.938	— 28
705	*β Lyrae	var.	B 8 p +B2p	18 47 27.500	+2.2149	+ 3	+33 16 45.44	+4.119	— 2
707	o Draconis	4.78	K 0	18 50 9.301	+0.8864	+ 105	+59 18 4.06	+4.376	+ 25
706	σ Sagittarii	2.14	B 3	18 50 51.798	+3.7200	+ 4	—26 23 11.64	+4.349	— 63
709	ϑ Serpent. pr.	4.50	A 5	18 52 41.389	+2.9823	+ 29	+ 4 6 35.39	+4.596	+ 28
708	λ Telescopii	5.03	B 9	18 52 47.140	+4.8018	+ 3	—53 1 59.44	+4.590	+ 14
711	*R Lyrae	var.	M b	18 53 10.501	+1.8263	+ 28	+43 51 5.95	+4.685	+ 76
710	[ξ Sagittarii]	3.61	K 0	18 53 29.685	+3.5789	+ 18	—21 12 5.50	+4.620	— 16
714	[υ Draconis]	4.91	K 0	18 55 16.432	—0.7291	+ 103	+71 12 9.25	+4.828	+ 40
713	γ Lyrae	3.30	A 0 p	18 56 17.228	+2.2438	— 4	+32 35 28.06	+4.872	— 2
712	[ε Aquilae]	4.21	K 0	18 56 23.961	+2.7221	— 42	+14 58 14.13	+4.803	— 80
715	[ζ Sagittarii]	2.71	A 2	18 58 5.706	+3.8172	— 21	—29 58 59.30	+5.029	+ 2
716	ζ Aquilae	3.02	A 0	19 2 8.784	+2.7570	— 7	+13 45 23.90	+5.268	—101
717	λ Aquilae	3.55	B 9	19 2 28.872	+3.1837	— 16	— 4 59 25.26	+5.311	— 87
718	α Coron. austr.	4.12	A 2	19 4 38.589	+4.0822	+ 59	—38 1 0.55	+5.470	—109
719	[ι Lyrae]	5.13	B 5	19 4 46.074	+2.1407	— 3	+35 59 16.37	+5.586	— 3

Nr. 705. Größe: Max. 3.4, Min. 4.1   Nr. 711. Größe: Max. 4.0, Min. 4.7, Größe in Harvard 50 = 4.32

Nr.	Name	Gr.	Spektrum	AR. 1929.0	Jährl. Veränderung	Jährl. Eigenbew. in 0s.0001	Dekl. 1929.0	Jährl. Veränderung	Jährl. Eigenbew. in 0".001
		M		h m s	s		° ′ ″	″	
720	π Sagittarii	3.02	F 2	19 5 32.531	+3.5680	− 5	−21 8 16.73	+ 5.619	− 35
721	[Pavonis 60 G.]	5.57	A 2	19 10 4.357	+6.0434	− 7	−66 47 9.45	+ 6.013	− 21
723	δ Draconis	3.24	K 0	19 12 32.615	+0.0182	+ 167	+67 32 11.71	+ 6.327	+ 88
722	[*d* Sagittarii]	5.03	K 0	19 13 28.909	+3.5103	− 12	−19 4 50.34	+ 6.308	− 9
724	ϑ Lyrae	4.46	K 0	19 13 54.183	+2.0817	− 7	+38 0 22.69	+ 6.351	− 1
725	ω Aquilae	5.14	A 5	19 14 29.020	+2.8157	− 3	+11 27 58.11	+ 6.413	+ 13
726	κ Cygni	3.98	K 0	19 15 27.766	+1.3872	+ 69	+53 14 12.40	+ 6.601	+ 119
729	τ Draconis	4.63	K 0	19 16 55.731	−1.1451	− 326	+73 13 27.04	+ 6.712	+ 109
727	[υ Sagittarii]	4.58	B 8 p + F 2 p	19 17 39.731	+3.4364	0	−16 5 22.64	+ 6.661	− 2
728	α Sagittarii	4.11	B 8	19 18 58.167	+4.1585	+ 18	−40 45 3.95	+ 6.653	− 118
730	δ Aquilae	3.44	F 0	19 21 55.118	+3.0246	+ 167	+ 2 58 18.92	+ 7.094	+ 81
731	[Sagittar. 186 G.]	5.68	B 9	19 22 27.366	+3.7924	+ 7	−29 53 6.41	+ 7.010	− 47
734	[Grb 2900]	6.00	A 2	19 26 1.421	−3.6008	+ 96	+79 27 43.04	+ 7.313	− 35
732	*β Cygni	3.24	K 0 + A 0	19 27 51.452	+2.4190	− 2	+27 48 34.07	+ 7.490	− 8
733	ι Cygni	3.94	A 2	19 27 54.986	+1.5129	+ 22	+51 34 39.97	+ 7.627	+ 125
735	[ι Telescopii]	5.02	K 0	19 29 57.111	+4.4523	− 41	−48 15 14.04	+ 7.627	− 40
736	*h* Sagittarii	4.66	B 9	19 32 23.300	+3.6517	+ 46	−25 2 30.36	+ 7.841	− 22
737	[κ Aquilae]	5.04	B 0	19 33 4.368	+3.2280	+ 3	− 7 11 11.76	+ 7.919	0
738	ϑ Cygni	4.64	F 5	19 34 32.234	+1.6081	− 29	+50 3 21.01	+ 8.283	+ 247
740	[15 Cygni]	5.02	K 0	19 41 42.934	+2.1633	+ 59	+37 10 55.00	+ 8.642	+ 36
739	[ν Telescopii]	5.52	A 5	19 42 13.741	+4.9053	+ 86	−56 32 5.89	+ 8.511	− 137
742	δ Cygni	2.97	A 0	19 42 45.372	+1.8756	+ 51	+44 57 23.65	+ 8.729	+ 40
741	γ Aquilae	2.80	K 2	19 42 53.046	+2.8519	+ 9	+10 26 20.73	+ 8.699	0
743	δ Sagittae	3.78	M a + A 0	19 44 13.303	+2.6749	+ 4	+18 21 28.89	+ 8.817	+ 13
744	[51 Aquilae]	5.55	F 0	19 46 52.490	+3.3016	− 21	−10 56 41.42	+ 9.054	+ 41
745	α Aquilae	0.89	A 5	19 47 19.140	+2.9268	+ 360	+ 8 40 46.65	+ 9.430	+ 383
747	ε Draconis	3.99	K 0	19 48 25.353	−0.1952	+ 156	+70 5 13.43	+ 9.163	+ 30
746	*[η Aquilae]	var.	G 0 p	19 48 51.404	+3.0564	+ 6	+ 0 49 19.78	+ 9.158	− 9
749	β Aquilae	3.90	K 0	19 51 49.534	+2.9466	+ 25	+ 6 13 41.72	+ 8.917	− 480
748	ε Pavonis	4.10	A 0	19 52 24.545	+6.9674	+ 147	−73 6 1.07	+ 9.310	− 132
750	ψ Cygni	4.80	A 3	19 53 47.678	+1.5512	− 43	+52 14 59.21	+ 9.518	− 31
751	ϑ¹ Sagittarii	4.39	B 3	19 55 7.057	+3.9062	− 12	−35 28 11.29	+ 9.615	− 36
752	γ Sagittae	3.71	K 5	19 55 35.947	+2.6675	+ 43	+19 17 53.61	+ 9.711	+ 24
753	[*c* Sagittarii]	4.60	M b	19 58 17.697	+3.6906	+ 21	−27 54 30.97	+ 9.910	+ 18
754	δ Pavonis	3.64	G 5	20 1 46.645	+5.9017	+1963	−66 21 55.00	+ 8.996	−1161
755	[ξ Telescopii]	4.86	M a	20 1 57.113	+4.6014	− 44	−53 5 8.75	+10.168	− 2
756	ϑ Aquilae	3.37	A 0	20 7 38.525	+3.0955	+ 22	− 1 1 59.74	+10.601	+ 6
759	κ Cephei	4.40	B 9	20 11 18.696	−1.9903	+ 12	+77 29 54.15	+10.893	+ 27
757	o¹ Cygni sq.	3.95	K 0 + B 8	20 11 23.751	+1.8892	+ 4	+46 31 30.70	+10.874	+ 1
758	[33 Cygni]	4.32	A 3	20 11 44.905	+1.3954	+ 74	+56 20 59.98	+10.984	+ 85

Nr. 732. Größe und Spektrum beziehen sich auf die hellere Komponente. Die entsprechenden Werte für die schwächere Komponente sind 5.36 und B9. Nr. 746. Größe: Max. 3.7, Min. 4.5

Nr.	Name	Gr.	Spektrum	AR. 1929.0	Jährl. Veränderung	Jährl. Eigenbew. in 0s.0001	Dekl. 1929.0	Jährl. Veränderung	Jährl. Eigenbew. in 0".001
		M		h m s	s		° ' "	"	
760	24 Vulpeculae	5.45	K0	20 13 44.786	+2.5670	+ 12	+24 27 4.89	+11.025	− 19
761	$α^2$ Capricorni	3.77	G5	20 14 7.012	+3.3293	+ 40	−12 45 57.78	+11.083	+ 11
762	[β Capricorni]	3.25	G0 + A0	20 17 1.425	+3.3712	+ 23	−15 0 24.46	+11.289	+ 6
763	[$κ^1$ Sagittarii]	5.64	A0	20 17 38.633	+4.0789	+ 37	−42 16 29.33	+11.231	− 96
765	γ Cygni	2.32	F8p	20 19 40.773	+2.1529	+ 4	+40 1 42.93	+11.474	0
764	α Pavonis	2.12	B3	20 20 2.530	+4.7570	+ 11	−56 57 50.69	+11.415	− 85
766	[ρ Capricorni]	4.96	F0	20 24 48.773	+3.4229	− 14	−18 2 58.33	+11.823	− 16
767	ϑ Cephei	4.28	A5	20 28 23.609	+1.0092	+ 63	+62 45 18.16	+12.077	− 14
768	ε Delphini	3.98	B5	20 29 49.257	+2.8660	+ 5	+11 3 39.06	+12.165	− 25
770	73 Draconis	5.18	A2p	20 32 27.916	−0.7717	+ 16	+74 42 41.72	+12.361	− 12
769	α Jndi	3.21	K0	20 32 34.761	+4.2247	+ 33	−47 32 25.79	+12.440	+ 60
771	β Delphini	3.72	F5	20 34 13.169	+2.8130	+ 74	+14 20 49.56	+12.456	− 36
772	[κ Delphini]	5.23	G5	20 35 40.858	+2.9138	+ 212	+ 9 50 6.23	+12.611	+ 18
773	υ Capricorni	5.33	Ma	20 36 0.622	+3.4164	− 17	−18 23 23.28	+12.599	− 16
774	α Delphini	3.86	B8	20 36 20.413	+2.7865	+ 45	+15 39 37.84	+12.631	− 6
775	β Pavonis	3.60	A5	20 38 34.931	+5.4277	− 71	−66 27 36.39	+12.791	+ 1
776	[η Jndi]	4.70	F0	20 38 50.028	+4.4127	+ 157	−52 10 34.15	+12.733	− 73
777	α Cygni	1.33	A2p	20 39 0.655	+2.0450	+ 4	+45 1 33.00	+12.817	− 1
778	[δ Delphini]	4.53	A5	20 40 8.650	+2.8008	− 14	+14 49 7.69	+12.846	− 48
779	[ψ Capricorni]	4.26	F8	20 41 53.697	+3.5539	− 44	−25 31 38.22	+12.854	− 157
780	ε Cygni	2.64	K0	20 43 20.273	+2.4275	+ 290	+33 42 12.44	+13.434	+ 328
782	[6 H. Cephei]	4.63	G0	20 43 35.422	+1.4894	− 87	+57 19 27.78	+12.889	− 234
781	ε Aquarii	3.83	A0	20 43 50.035	+3.2481	+ 17	− 9 45 24.14	+13.111	− 28
783	η Cephei	3.59	K0	20 43 50.909	+1.2226	+ 131	+61 33 45.18	+13.959	+ 819
784	λ Cygni	4.47	B5	20 44 38.524	+2.3363	+ 5	+36 13 44.63	+13.192	0
785	β Jndi	3.72	K0	20 49 16.356	+4.6994	0	−58 43 24.29	+13.467	− 27
786	32 Vulpeculae	5.24	K5	20 51 32.002	+2.5566	− 4	+27 47 12.23	+13.642	+ 1
788	ν Cygni	4.04	A0	20 54 31.517	+2.2361	+ 9	+40 53 34.70	+13.813	− 17
787	[α Octantis]	5.24	F2	20 56 10.594	+7.3325	− 13	−77 17 47.25	+13.580	− 355
789	[11 Aquarii]	6.26	G0	20 56 49.569	+3.1591	+ 23	− 5 0 19.92	+13.843	− 133
790	ζ Microscopii	5.35	F0	20 58 26.034	+3.8372	− 36	−38 54 36.00	+13.955	− 122
792	[ξ Cygni]	3.92	K5	21 2 20.862	+2.1821	+ 12	+43 38 37.61	+14.315	− 3
791	[A Capricorni]	4.60	Ma	21 2 58.666	+3.5105	− 30	−25 17 26.89	+14.310	− 47
793	61 Cygni pr.	5.57	K5	21 3 42.755	+2.6867	+3505	+38 23 57.94	+17.657	+3256
794	ν Aquarii	4.52	K0	21 5 43.724	+3.2692	+ 62	−11 39 36.48	+14.514	− 9
795	Br 2777	5.90	B9	21 6 57.116	−1.1695	+ 74	+77 50 19.90	+14.633	+ 36
797	ζ Cygni	3.40	K0	21 9 54.803	+2.5527	− 1	+29 56 5.47	+14.715	− 59
798	[Grb 3415]	5.65	B2	21 9 59.827	+1.5277	− 6	+59 41 38.68	+14.776	− 2
796	[Jndi 23 G.]	5.84	A5	21 10 41.999	+4.2896	− 19	−53 33 30.60	+14.774	− 46
799	[τ Cygni]	3.82	F0	21 11 57.346	+2.3943	+ 137	+37 44 29.81	+15.329	+ 435

Mittlere Sternörter 1929.0

Nr.	Name	Gr.	Spektrum	AR. 1929.0	Jährl. Veränderung	Jährl. Eigenbew. in 0s.0001	Dekl. 1929.0	Jährl. Veränderung	Jährl. Eigenbew. in 0".001
		M		h m s	s		° ' "	"	
800	α Equulei	4.14	F 8 + A 3	21 12 16.513	+2.9992	+ 38	+ 4 57 12.07	+14.825	− 87
801	[4 Pisc. austr.]	4.79	A 0	21 13 38.220	+3.6408	+ 35	−32 28 13.04	+14.965	− 26
802	[ϑ^1 Microscop.]	4.92	A 2 p	21 16 13.599	+3.8441	+ 70	−41 6 37.88	+15.155	+ 14
803	α Cephei	2.60	A 5	21 16 53.165	+1.4328	+ 212	+62 17 3.47	+15.228	+ 49
804	1 Pegasi	4.24	K 0	21 18 48.140	+2.7742	+ 74	+19 29 59.40	+15.348	+ 61
805	γ Pavonis	4.30	F 8	21 20 35.663	+4.9813	+ 129	−65 41 20.02	+16.176	+ 788
806	ζ Capricorni	3.86	G 5 p	21 22 37.014	+3.4275	− 1	−22 43 11.56	+15.524	+ 23
807	[g Cygni]	5.34	K 0	21 26 49.683	+2.2134	+ 48	+46 13 36.54	+15.835	+ 103
809	β Cephei	3.32	B 1	21 27 45.090	+0.7804	+ 20	+70 14 55.66	+15.789	+ 7
808	β Aquarii	3.07	G 0	21 27 49.350	+3.1589	+ 11	− 5 53 3.80	+15.781	− 5
810	ν Octantis	3.74	K 0	21 33 38.815	+6.7415	+ 133	−77 42 25.28	+15.838	− 256
811	74 Cygni	5.09	A 5	21 34 6.084	+2.4038	− 3	+40 5 37.91	+16.130	+ 12
812	[γ Capricorni]	3.80	F 0 p	21 36 9.599	+3.3256	+ 131	−16 59 1.74	+16.208	− 16
813	[13 H. Cephei]	5.64	Oe 5	21 36 45.442	+1.8619	+ 7	+57 10 2.95	+16.257	+ 2
815	ε Pegasi	2.54	K 0	21 40 41.919	+2.9464	+ 18	+ 9 32 55.15	+16.454	0
814	[ι Pisc.austr.]	4.35	A 0	21 40 43.321	+3.5768	+ 18	−33 21 2.07	+16.366	− 89
817	[11 Cephei]	4.85	K 0	21 40 53.283	+0.8846	+ 234	+70 59 3.31	+16.562	+ 98
816	[κ Pegasi]	4.27	F 5	21 41 25.722	+2.7160	+ 25	+25 19 4.55	+16.500	+ 10
818	[λ Capricorni]	5.43	A 0	21 42 42.926	+3.2308	+ 20	−11 41 38.98	+16.551	− 4
819	δ Capricorni	2.98	A 5	21 43 7.462	+3.3126	+ 178	−16 27 1.13	+16.281	− 294
821	π^2 Cygni	4.26	B 3	21 44 10.109	+2.2156	+ 8	+48 58 49.35	+16.622	− 4
820	[ο Jndi]	5.50	K 2	21 44 48.450	+5.1022	− 87	−69 57 40.15	+16.636	− 21
822	γ Gruis	3.16	B 8	21 49 38.086	+3.6368	+ 77	−37 41 58.80	+16.870	− 18
823	16 Pegasi	5.05	B 3	21 49 49.817	+2.7290	+ 4	+25 35 25.44	+16.899	+ 1
824	[δ Jndi]	4.56	F 0	21 53 5.816	+4.0932	+ 43	−55 19 52.83	+17.020	− 29
826	[20 Pegasi]	5.66	F 2	21 57 37.771	+2.9222	+ 36	+12 46 44.65	+17.200	− 54
825	[ε Jndi]	4.74	K 5	21 57 56.549	+4.6018	+4810	−57 4 43.96	+14.691	−2577
827	α Aquarii	3.19	G 0	22 2 8.270	+3.0815	+ 10	− 0 39 55.73	+17.445	− 7
828	ι Aquarii	4.35	B 8	22 2 36.285	+3.2411	+ 24	−14 12 53.34	+17.420	− 51
830	20 Cephei	5.39	K 5	22 2 50.951	+1.8225	+ 22	+62 26 19.80	+17.543	+ 60
831	[ι Pegasi]	3.96	F 5	22 3 42.248	+2.7920	+ 219	+24 59 51.48	+17.541	+ 22
829	α Gruis	2.16	B 5	22 3 45.994	+3.7883	+ 119	−47 18 21.21	+17.350	− 171
832	[μ Pisc. austr.]	4.62	A 2	22 4 14.661	+3.5023	+ 41	−33 20 8.89	+17.501	− 41
833	[27 Pegasi]	5.65	K 0	22 6 4.775	+2.6576	− 42	+32 49 29.59	+17.554	− 65
834	ϑ Pegasi	3.70	A 2	22 6 37.104	+3.0263	+ 184	+ 5 50 52.36	+17.672	+ 31
835	π Pegasi	4.38	F 5	22 6 49.922	+2.6633	− 9	+32 49 45.21	+17.631	− 19
836	ζ Cephei	3.62	K 0	22 8 23.282	+2.0793	+ 14	+57 51 2.81	+17.720	+ 6
837	24 Cephei	4.99	G 5	22 8 26.781	+1.1556	+ 54	+71 59 28.42	+17.724	+ 8
838	[λ Pisc.austr.]	5.40	B 9	22 10 17.553	+3.4034	+ 16	−28 7 10.46	+17.790	− 1
839	[ε Octantis]	5.11	M b	22 12 9.626	+6.8248	+ 137	−80 47 39.74	+17.826	− 40

Nr.	Name	Gr.	Spektrum	AR. 1929.0	Jährl. Veränderung	Jährl. Eigenbew. in 0ˢ.0001	Dekl. 1929.0	Jährl. Veränderung	Jährl. Eigenbew. in 0″.001
		M		h m s	s		° ′ ″	″	
840	ϑ Aquarii	4.32	K 0	22 13 5.315	+3.1665	+ 76	− 8 8 14.89	+17.884	− 19
841	α Tucanae	2.91	K 2	22 13 39.182	+4.1251	− 98	−60 36 51.72	+17.876	− 49
842	γ Aquarii	3.97	A 0	22 17 59.378	+3.0987	+ 83	− 1 44 44.84	+18.098	+ 7
843	[31 Pegasi]	4.93	B 3 p	22 18 1.331	+2.9521	− 1	+11 50 48.69	+18.101	+ 9
844	3 Lacertae	4.58	K 0	22 20 45.867	+2.3570	− 15	+51 52 22.01	+18.004	−191
845	[ν Gruis]	5.48	K 0	22 24 29.840	+3.5210	+ 24	−39 29 30.02	+18.167	−162
846	[δ¹ Gruis]	4.02	G 5	22 25 1.952	+3.5916	+ 17	−43 51 32.41	+18.340	− 8
847	*[δ Cephei]	var.	veränd.	22 26 31.851	+2.2247	+ 17	+58 3 4.81	+18.402	+ 2
848	7 Lacertae	3.85	A 0	22 28 21.767	+2.4695	+ 147	+49 55 1.11	+18.480	+ 17
849	[υ Aquarii]	5.29	F 5	22 30 48.793	+3.2837	+ 155	−21 4 20.98	+18.402	−144
850	η Aquarii	4.13	B 8	22 31 42.508	+3.0830	+ 59	− 0 29 2.51	+18.520	− 55
851	[31 Cephei]	5.22	F 0	22 34 0.885	+1.4817	+ 383	+73 16 27.58	+18.673	+ 23
852	10 Lacertae	4.91	Oe 5	22 36 4.341	+2.6902	+ 4	+38 40 48.91	+18.709	− 6
853	[30 Cephei]	5.21	A 2	22 36 7.709	+2.1257	+ 1	+63 12 54.10	+18.696	− 22
854	[ε Pisc.austr.]	4.22	B 8	22 36 43.911	+3.3204	+ 12	−27 24 51.90	+18.738	+ 2
855	ζ Pegasi	3.61	B 8	22 37 55.215	+2.9917	+ 53	+10 27 36.67	+18.760	− 13
856	β Gruis	2.24	M b	22 38 26.054	+3.5884	+ 117	−47 15 24.05	+18.763	− 25
857	η Pegasi	3.10	G 0	22 39 40.282	+2.8108	+ 12	+29 50 57.61	+18.793	− 33
858	[13 Lacertae]	5.24	K 0	22 40 55.268	+2.6731	− 6	+41 26 46.28	+18.868	+ 5
859	λ Pegasi	4.14	K 0	22 43 6.546	+2.8885	+ 41	+23 11 29.53	+18.917	− 10
860	ε Gruis	3.69	A 2	22 44 16.437	+3.6313	+ 96	−51 41 26.89	+18.887	− 73
861	[τ Aquarii]	4.21	K 5	22 45 50.072	+3.1774	− 12	−13 58 4.07	+18.971	− 33
862	[μ Pegasi]	3.67	K 0	22 46 34.456	+2.8945	+ 109	+24 13 34.48	+18.984	− 41
863	ι Cephei	3.68	K 0	22 47 8.832	+2.1309	− 114	+65 49 36.00	+18.917	−123
864	λ Aquarii	3.84	M a	22 48 54.690	+3.1304	+ 5	− 7 57 28.33	+19.126	+ 38
865	ρ Indi	6.14	G 0	22 49 44.614	+4.1986	− 101	−70 27 12.90	+19.172	+ 62
866	δ Aquarii	3.51	A 2	22 50 53.041	+3.1848	− 33	−16 11 55.72	+19.120	− 19
867	α Pisc. austr.	1.29	A 3	22 53 43.840	+3.3176	+ 247	−29 59 56.05	+19.053	−159
868	[ζ Gruis]	4.18	G 5	22 56 41.837	+3.5508	− 80	−53 8 7.25	+19.269	− 16
869	ο Androm.	3.63	B 5 + A 2 p	22 58 39.015	+2.7577	+ 25	+41 56 38.16	+19.318	− 13
870	β Pegasi	2.61	M a	23 0 19.773	+2.9068	+ 145	+27 41 50.23	+19.506	+138
871	α Pegasi	2.57	A 0	23 1 13.348	+2.9873	+ 41	+14 49 22.29	+19.348	− 41
872	ϑ Gruis	4.35	F 5	23 2 53.106	+3.3849	− 52	−43 54 16.04	+19.387	− 38
874	π Cephei	4.56	G 5	23 5 38.046	+1.9035	+ 29	+75 0 12.62	+19.458	− 25
873	c² Aquarii	3.80	K 0	23 5 39.794	+3.2001	+ 32	−21 33 29.26	+19.520	+ 36
875	Br 3077	5.65	K 2	23 9 51.390	+2.8832	+2532	+56 46 33.79	+19.862	+296
876	[Tucanae 25 G.]	5.69	G 0	23 12 42.274	+3.6195	+ 231	−62 23 19.80	+19.566	− 53
877	γ Tucanae	4.10	F 2	23 13 17.717	+3.5104	− 59	−58 37 31.03	+19.712	+ 82
878	[γ Piscium]	3.85	K 0	23 13 29.046	+3.1096	+ 503	+ 2 53 38.39	+19.651	+ 18
879	γ Sculptoris	4.51	K 0	23 14 59.640	+3.2427	+ 10	−32 55 8.83	+19.592	− 68

Nr. 847. Spektrum wechselt von F 5 bis G 0.

Mittlere Sternörter 1929.0

Nr.	Name	Gr.	Spektrum	AR. 1929.0	Jährl. Veränderung	Jährl. Eigenbew. in 0s.0001	Dekl. 1929.0	Jährl. Veränderung	Jährl. Eigenbew. in 0".001
		M		h m s	s		° ' "	"	
880	τ Pegasi	4.65	A 5	23 17 7.203	+2.9677	+ 21	+23 21 4.87	+19.681	− 13
882	4 Cassiopeiae	5.20	K 5	23 21 40.519	+2.6582	+ 17	+61 53 34.01	+19.754	− 10
881	[υ Pegasi]	4.57	G 0	23 21 49.977	+2.9926	+138	+23 0 46.61	+19.802	+ 35
883	[ο Gruis]	5.54	F 0	23 22 38.491	+3.3615	− 4	−53 6 53.86	+19.897	+119
884	κ Piscium	4.94	A 2 p	23 23 17.554	+3.0753	+ 56	+ 0 52 0.03	+19.695	− 93
885	70 Pegasi	4.67	K 0	23 25 33.727	+3.0328	+ 38	+12 22 6.86	+19.846	+ 28
886	[β Sculptoris]	4.46	B 9	23 29 10.087	+3.2205	+ 65	−38 12 40.52	+19.877	+ 14
887	[72 Pegasi]	5.21	K 2	23 30 25.672	+2.9738	+ 40	+30 55 59.87	+19.866	− 12
888	[Aquarii 248 G.]	6.51	K 0	23 31 52.352	+3.0950	− 5	− 7 51 27.12	+19.917	+ 23
889	[Phoenicis 11 G.]	4.86	A 2	23 34 1.948	+3.2334	+ 47	−45 53 8.69	+19.879	− 37
890	[λ Androm.]	4.00	K 0	23 34 4.958	+2.9319	+156	+46 4 23.78	+19.493	−423
891	ι Androm.	4.28	B 8	23 34 38.904	+2.9386	+ 27	+42 52 29.18	+19.917	− 5
892	ι Piscium	4.28	F 8	23 36 17.838	+3.0849	+247	+ 5 14 28.39	+19.497	−440
893	γ Cephei	3.42	K 0	23 36 25.112	+2.4486	−184	+77 14 9.82	+20.095	+157
894	ω² Aquarii	4.62	A 0	23 39 2.505	+3.1119	+ 65	−14 56 15.40	+19.898	− 63
895	41 H. Cephei	5.02	A 0	23 44 30.187	+2.8581	+ 23	+67 24 44.13	+20.000	+ 1
896	Lac. δ Sculpt.	4.64	A 0	23 45 13.811	+3.1267	+ 71	−28 31 23.01	+19.898	−105
897	[Aquarii 268 G.]	6.08	K 0	23 46 34.916	+3.0957	+ 86	−10 22 13.80	+20.096	+ 86
898	φ Pegasi	5.23	M a	23 48 52.380	+3.0501	− 8	+18 43 33.02	+19.982	− 39
899	[ρ Cassiopeiae]	4.85	F 8 p	23 50 49.591	+2.9895	− 7	+57 6 15.72	+20.032	+ 4
900	[27 Piscium]	5.07	K 0	23 55 2.278	+3.0712	− 37	− 3 56 59.72	+19.971	− 68
901	[π Phoenicis]	5.14	K 0	23 55 15.296	+3.1127	+ 30	−53 8 33.77	+20.086	+ 46
902	ω Piscium	4.03	F 5	23 55 39.839	+3.0800	+100	+ 6 28 12.78	+19.931	−109
903	ε Tucanae	4.71	B 9	23 56 14.266	+3.1285	+ 64	−65 58 20.09	+20.009	− 33
904	[ϑ Octantis]	4.73	K 0	23 57 58.059	+3.1043	−219	−77 27 27.74	+19.873	−171

Nr.	Name	Gr.	Spektrum	AR. 1929.0	Jährl. Veränderung	Jährl. Eigenbew. in 0ˢ.001	Dekl. 1929.0	Jährl. Veränderung	Jährl. Eigenbew. in 0″.001
	Nördliche Polsterne								
		M		h m s	s		° ′ ″	″	
Na	43 H. Cephei	4.52	K 0	0 58 42.323	+ 7.845	+ 76	+85 52 38.03	+19.389	— 1
Nb	α Ursae min.	2.12	F 8	1 36 20.236	+32.244	+152	+88 55 24.36	+18.300	+ 1
Nc	*Grb 750	6.70	F 8	4 13 35.332	+17.832	+ 16	+85 21 59.51	+ 9.008	+ 32
Nd	51 H. Cephei	5.26	M a	7 7 52.411	+28.813	— 51	+87 9 46.75	— 5.885	— 35
Ne	1 H. Dracon.	4.58	K 2	9 27 6.564	+ 8.694	— 6	+81 38 32.89	—15.767	— 20
Nf	[30 H. Camel.]	5.34	F 2	10 22 34.907	+ 7.464	— 46	+82 55 16.30	—18.229	+ 31
Ng	ε Ursae min.	4.40	G 5	16 53 10.770	— 6.211	+ 7	+82 9 24.55	— 5.755	+ 6
Nh	δ Ursae min.	4.44	A 0	17 55 7.374	—19.490	+ 15	+86 36 49.02	— 0.369	+ 57
Ni	λ Ursae min.	6.55	M b	18 48 0.364	—74.488	— 98	+89 1 59.93	+ 4.174	+ 7
Nk	76 Draconis	5.69	A 0	20 47 50.207	— 4.231	+ 16	+82 16 11.44	+13.429	+ 27

Nr. Nc Größe aus Harvard 54 entnommen.

Nr.	Name	Gr.	Spektrum	AR. 1929.0	Jährl. Veränderung	Jährl. Eigenbew. in 0ˢ.001	Dekl. 1929.0	Jährl. Veränderung	Jährl. Eigenbew. in 0″.001
	Südliche Polsterne								
		M		h m s	s		° ′ ″	″	
Sa	Octantis 4 G.	5.63	K 0	1 41 18.507	— 3.616	+ 18	—85 7 43.60	+18.152	+ 34
Sb	[ξ Mensae]	5.85	K 0	5 6 53.347	— 6.902	— 4	—82 34 4.94	+ 4.618	+ 14
Sc	ζ Octantis	5.38	F 0	9 7 20.081	— 8.337	— 94	—85 22 52.73	—14.571	+ 49
Sd	ι Octantis	5.38	K 0	12 47 19.766	+ 6.090	+ 42	—84 44 17.69	—19.593	+ 25
Se	Octantis 20 G.	6.52	A 2	14 51 30.561	+27.264	—183	—87 51 49.23	—14.758	— 69
Sf	Octantis 26 G.	6.13	A 0	16 34 3.123	+22.005	+ 5	—86 14 28.33	— 7.344	— 2
Sg	χ Octantis	5.22	K 0	18 13 20.603	+35.660	— 87	—87 39 43.13	+ 1.037	—129
Sh	σ Octantis	5.48	F 0	19 46 3.006	+88.515	+109	—89 11 49.82	+ 8.948	+ 1
Si	β Octantis	4.34	F 0	22 38 54.565	+ 6.242	— 26	—81 45 16.94	+18.805	+ 3
Sk	τ Octantis	5.56	K 0	23 18 7.658	+ 9.629	+ 20	—87 52 21.84	+19.726	+ 15

Von den Sternen, deren Namen eingeklammert sind, folgen keine Ephemeriden.

Tag	1) α Andromedae AR.	Δ	1) α Andromedae Dekl.	Δ	2) β Cassiopeiae AR.	Δ	2) β Cassiopeiae Dekl.	Δ	3) ε Phoenicis AR.	Δ	3) ε Phoenicis Dekl.	Δ	7) γ Pegasi AR.	Δ	7) γ Pegasi Dekl.	Δ
1929	$0^h\ 4^m$		+28° 41′		$0^h\ 5^m$		+58° 45′		$0^h\ 5^m$		−46° 7′		$0^h\ 9^m$		+14° 47′	
Jan. 0	41.563	137	57.52	89	20.932	316	40.53	71	47.861	187	102.68	40	33.516	112	18.15	80
10	41.426	130	56.63	115	20.616	304	39.82	123	47.674	170	102.28	85	33.404	106	17.35	91
20	41.296	118	55.48	136	20.312	279	38.59	168	47.504	149	101.43	129	33.298	97	16.44	98
30	41.178	99	54.12	150	20.033	242	36.91	208	47.355	123	100.14	170	33.201	82	15.46	100
Feb. 9	41.079	75	52.62	159	19.791	193	34.83	238	47.232	89	98.44	206	33.119	61	14.46	99
19	41.004	43	51.03	159	19.598	133	32.45	259	47.143	52	96.38	239	33.058	34	13.47	90
März 1	40.961	6	49.44	153	19.465	64	29.86	268	47.091	10	93.99	265	33.024	2	12.57	78
11	40.955	35	47.91	138	19.401	12	27.18	266	47.081	36	91.34	288	33.022	34	11.79	58
21	40.990	80	46.53	116	19.413	91	24.52	252	47.117	86	88.46	303	33.056	74	11.21	36
31	41.070	127	45.37	88	19.504	171	22.00	230	47.203	137	85.43	314	33.130	116	10.85	8
Apr. 10	41.197	174	44.49	55	19.675	248	19.70	195	47.340	189	82.29	317	33.246	158	10.77	21
20	41.371	218	43.94	18	19.923	321	17.75	155	47.529	239	79.12	314	33.404	199	10.98	54
30	41.589	258	43.76	21	20.244	380	16.20	108	47.768	287	75.98	305	33.603	237	11.52	85
Mai 10	41.847	292	43.97	60	20.624	434	15.12	58	48.055	328	72.93	289	33.840	269	12.37	115
20	42.139	320	44.57	99	21.058	473	14.54	4	48.383	365	70.04	267	34.109	295	13.52	144
30	42.459	338	45.56	135	21.531	499	14.50	48	48.748	392	67.37	238	34.404	315	14.96	169
Juni 9	42.797	348	46.91	168	22.030	512	14.98	100	49.140	410	64.99	203	34.719	326	16.65	189
19	43.145	349	48.59	196	22.542	510	15.98	149	49.550	418	62.96	164	35.045	328	18.54	205
29	43.494	340	50.55	219	23.052	494	17.47	195	49.968	415	61.32	120	35.373	322	20.59	216
Juli 9	43.834	324	52.74	237	23.546	469	19.42	234	50.383	402	60.12	74	35.695	308	22.75	221
19	44.158	301	55.11	249	24.015	430	21.76	270	50.785	377	59.38	25	36.003	288	24.96	221
29	44.459	270	57.60	255	24.445	384	24.46	298	51.162	344	59.13	21	36.291	260	27.17	215
Aug. 8	44.729	236	60.15	256	24.829	330	27.44	321	51.506	302	59.34	68	36.551	229	29.32	206
18	44.965	196	62.71	251	25.159	271	30.65	336	51.808	253	60.02	111	36.780	192	31.38	192
28	45.161	155	65.22	243	25.430	208	34.01	344	52.061	199	61.13	150	36.972	155	33.30	175
Sept. 7	45.316	115	67.65	229	25.638	145	37.45	346	52.260	143	62.63	182	37.127	117	35.05	155
17	45.431	74	69.94	212	25.783	81	40.91	341	52.403	85	64.45	207	37.244	79	36.60	135
26	45.505	36	72.06	191	25.864	19	44.32	329	52.488	29	66.52	223	37.323	44	37.95	112
Okt. 6	45.541	1	73.97	168	25.883	41	47.61	310	52.517	23	68.75	228	37.367	11	39.07	89
16	45.542	31	75.65	143	25.842	96	50.71	285	52.494	71	71.03	225	37.378	18	39.96	67
26	45.511	57	77.08	115	25.746	147	53.56	254	52.423	111	73.28	212	37.360	42	40.63	44
Nov. 5	45.454	81	78.23	86	25.599	192	56.10	215	52.312	145	75.40	190	37.318	64	41.07	22
15	45.373	100	79.09	55	25.407	233	58.25	173	52.167	169	77.30	159	37.254	80	41.29	2
25	45.273	115	79.64	23	25.174	265	59.98	124	51.998	187	78.89	122	37.174	94	41.31	18
Dez. 5	45.158	126	79.87	9	24.909	291	61.22	73	51.811	195	80.11	80	37.080	102	41.13	37
15	45.032	133	79.78	40	24.618	308	61.95	19	51.616	197	80.91	35	36.978	108	40.76	55
25	44.899	135	79.38	70	24.310	313	62.14	37	51.419	193	81.26	11	36.870	111	40.21	70
35	44.764		78.68		23.997		61.77		51.226		81.15		36.759		39.51	
Mittl. Ort	42.798		54.53		22.636		29.44		48.668		81.64		34.620		19.73	
sec δ, tg δ	1.140		+0.548		1.928		+1.648		1.443		−1.041		1.034		+0.264	

Tag	9) ι Ceti AR.		9) ι Ceti Dekl.		10) ζ Tucanae AR.		10) ζ Tucanae Dekl.		11) β Hydri AR.		11) β Hydri Dekl.		12) α Phoenicis AR.		12) α Phoenicis Dekl.	
1929	0h 15m		−9° 12′		0h 16m		−65° 17′		0h 21m		−77° 38′		0h 22m		−42° 41′	
Jan. 0	47.693	105	72.80	51	22.45	39	56.06	84	63.15	87	100.07	108	45.965	177	50.10	14
10	47.588	100	73.31	36	22.06	35	55.22	141	62.28	80	98.99	167	45.788	168	49.96	59
20	47.488	90	73.67	19	21.71	32	53.81	192	61.48	73	97.32	220	45.620	151	49.37	102
30	47.398	76	73.86	0	21.39	27	51.89	239	60.75	63	95.12	268	45.469	130	48.35	143
Feb. 9	47.322	57	73.86	19	21.12	21	49.50	279	60.12	51	92.44	309	45.339	102	46.92	182
19	47.265	33	73.67	41	20.91	15	46.71	313	59.61	37	89.35	341	45.237	69	45.10	215
März 1	47.232	3	73.26	63	20.76	7	43.58	340	59.24	24	85.94	366	45.168	31	42.95	244
11	47.229	30	72.63	87	20.69	1	40.18	359	59.00	8	82.28	381	45.137	13	40.51	270
21	47.259	68	71.76	111	20.68	8	36.59	370	58.92	7	78.47	389	45.150	59	37.81	289
31	47.327	107	70.65	134	20.76	16	32.89	373	58.99	22	74.58	388	45.209	108	34.92	302
Apr. 10	47.434	148	69.31	156	20.92	25	29.16	369	59.21	38	70.70	380	45.317	159	31.90	310
20	47.582	187	67.75	177	21.17	32	25.47	358	59.59	53	66.90	363	45.476	209	28.80	312
30	47.769	225	65.98	193	21.49	40	21.89	338	60.12	67	63.27	338	45.685	256	25.68	307
Mai 10	47.994	258	64.05	207	21.89	46	18.51	310	60.79	79	59.89	306	45.941	299	22.61	295
20	48.252	285	61.98	215	22.35	52	15.41	278	61.58	90	56.83	268	46.240	336	19.66	277
30	48.537	306	59.83	218	22.87	57	12.63	237	62.48	100	54.15	224	46.576	365	16.89	252
Juni 9	48.843	319	57.65	217	23.44	61	10.26	192	63.48	106	51.91	174	46.941	386	14.37	221
19	49.162	325	55.48	209	24.05	62	8.34	143	64.54	111	50.17	121	47.327	397	12.16	185
29	49.487	321	53.39	197	24.67	62	6.91	89	65.65	111	48.96	64	47.724	397	10.31	144
Juli 9	49.808	311	51.42	179	25.29	61	6.02	35	66.76	110	48.32	7	48.121	388	8.87	100
19	50.119	292	49.63	157	25.90	58	5.67	21	67.86	106	48.25	50	48.509	369	7.87	53
29	50.411	266	48.06	132	26.48	53	5.88	76	68.92	97	48.75	106	48.878	339	7.34	5
Aug. 8	50.677	236	46.74	104	27.01	48	6.64	126	69.89	86	49.81	158	49.217	303	7.29	42
18	50.913	201	45.70	75	27.49	40	7.90	175	70.75	73	51.39	204	49.520	260	7.71	86
28	51.114	163	44.95	45	27.89	31	9.65	214	71.48	58	53.43	244	49.780	210	8.57	127
Sept. 7	51.277	125	44.50	17	28.20	23	11.79	244	72.06	41	55.87	274	49.990	158	9.84	162
17	51.402	86	44.33	10	28.43	12	14.23	267	72.47	22	58.61	293	50.148	105	11.46	191
26*)	51.488	50	44.43	33	28.55	4	16.90	280	72.69	3	61.54	302	50.253	53	13.37	210
Okt. 6	51.538	17	44.76	53	28.59	6	19.70	280	72.72	15	64.56	299	50.306	3	15.47	222
16	51.555	14	45.29	68	28.53	14	22.50	269	72.57	33	67.55	283	50.309	42	17.69	222
26	51.541	39	45.97	79	28.39	22	25.19	246	72.24	50	70.38	257	50.267	83	19.91	214
Nov. 5	51.502	60	46.76	85	28.17	29	27.65	213	71.74	63	72.95	217	50.184	115	22.05	197
15	51.442	77	47.61	86	27.88	33	29.78	171	71.11	74	75.12	169	50.069	142	24.02	171
25	51.365	90	48.47	84	27.55	38	31.49	122	70.37	83	76.81	114	49.927	162	25.73	138
Dez. 5	51.275	99	49.31	78	27.17	39	32.71	67	69.54	88	77.95	55	49.765	175	27.11	100
15	51.176	103	50.09	69	26.78	40	33.38	9	68.66	90	78.50	8	49.590	180	28.11	57
25	51.073	104	50.78	58	26.38	40	33.47	50	67.76	89	78.42	70	49.410	180	28.68	13
35	50.969		51.36		25.98		32.97		66.87		77.72		49.230		28.81	
Mittl. Ort	48.624		62.89		22.90		31.73		62.91		74.71		46.633		30.12	
sec δ, tg δ	1.013		−0.162		2.392		−2.173		4.677		−4.569		1.361		−0.923	

*) Bei Stern 11) und 12) lies Sept. 27

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Tag	13) 12 Ceti AR.	Δ	Dekl.	Δ	17) ζ Cassiopeiae AR.	Δ	Dekl.	Δ
1929	0ʰ 26ᵐ		−4° 20′		0ʰ 32ᵐ		+53° 30′	
Jan. 0	24.031	106	66.17	58	58.930	262	33.64	44
10	23.925	103	66.75	49	58.668	261	33.20	92
20	23.822	95	67.24	36	58.407	249	32.28	137
30	23.727	83	67.60	22	58.158	225	30.91	175
Feb. 9	23.644	65	67.82	5	57.933	190	29.16	206
19	23.579	43	67.87	14	57.743	143	27.10	229
März 1	23.536	13	67.73	35	57.600	89	24.81	241
11	23.523	19	67.38	57	57.511	25	22.40	242
21	23.542	57	66.81	81	57.486	43	19.98	233
31	23.599	96	66.00	106	57.529	115	17.65	214
Apr. 10	23.695	138	64.94	130	57.644	184	15.51	186
20	23.833	178	63.64	152	57.828	252	13.65	151
30	24.011	216	62.12	172	58.080	313	12.14	108
Mai 10	24.227	250	60.40	189	58.393	365	11.06	63
20	24.477	278	58.51	203	58.758	408	10.43	14
30	24.755	301	56.48	210	59.166	439	10.29	35
Juni 9	25.056	315	54.38	213	59.605	458	10.64	83
19	25.371	322	52.25	211	60.063	464	11.47	130
29	25.693	320	50.14	204	60.527	459	12.77	172
Juli 9	26.013	310	48.10	191	60.986	442	14.49	212
19	26.323	294	46.19	173	61.428	416	16.61	245
29	26.617	269	44.46	152	61.844	380	19.06	273
Aug. 8	26.886	241	42.94	127	62.224	337	21.79	295
18	27.127	207	41.67	101	62.561	290	24.74	311
28	27.334	171	40.66	74	62.851	237	27.85	321
Sept. 7	27.505	134	39.92	46	63.088	184	31.06	324
17	27.639	97	39.46	19	63.272	128	34.30	320
27	27.736	61	39.27	4	63.400	75	37.50	311
Okt. 6	27.797	27	39.31	25	63.475	23	40.61	296
16	27.824	1	39.56	43	63.498	27	43.57	275
26	27.823	28	39.99	56	63.471	74	46.32	248
Nov. 5	27.795	50	40.55	66	63.397	117	48.80	215
15	27.745	68	41.21	71	63.280	156	50.95	176
25	27.677	82	41.92	74	63.124	189	52.71	135
Dez. 5	27.595	93	42.66	73	62.935	219	54.06	88
15	27.502	99	43.39	69	62.716	240	54.94	38
25	27.403	104	44.08	63	62.476	255	55.32	11
35	27.299		44.71		62.221		55.21	
Mittl. Ort	24.924		58.17		60.283		22.97	
sec δ, tg δ	1.003		−0.076		1.681		+1.352	

Tag	18) π Andromedae AR.	Δ	Dekl.	Δ	20) δ Andromedae AR.	Δ	Dekl.	Δ
1929	0ʰ 33ᵐ		+33° 19′		0ʰ 35ᵐ		+30° 28′	
Jan. 0	3.892	152	48.54	66	30.491	144	26.22	66
10	3.740	153	47.88	96	30.347	144	25.56	93
20	3.587	145	46.92	122	30.203	138	24.63	116
30	3.442	130	45.70	143	30.065	124	23.47	136
Feb. 9	3.312	109	44.27	158	29.941	104	22.11	148
19	3.203	79	42.69	166	29.837	76	20.63	154
März 1	3.124	42	41.03	166	29.761	40	19.09	151
11	3.082	1	39.37	157	29.721	1	17.58	142
21	3.083	49	37.80	140	29.722	46	16.16	126
31	3.132	99	36.40	117	29.768	95	14.90	102
Apr. 10	3.231	149	35.23	88	29.863	145	13.88	73
20	3.380	199	34.35	53	30.008	192	13.15	39
30	3.579	244	33.82	16	30.200	236	12.76	3
Mai 10	3.823	283	33.66	24	30.436	276	12.73	35
20	4.106	317	33.90	64	30.712	309	13.08	73
30	4.423	341	34.54	102	31.021	333	13.81	110
Juni 9	4.764	357	35.56	138	31.354	349	14.91	143
19	5.121	363	36.94	170	31.703	356	16.34	173
29	5.484	360	38.64	198	32.059	352	18.07	199
Juli 9	5.844	347	40.62	221	32.411	342	20.06	219
19	6.191	328	42.83	239	32.753	323	22.25	235
29	6.519	301	45.22	251	33.076	296	24.60	244
Aug. 8	6.820	268	47.73	258	33.372	265	27.04	249
18	7.088	231	50.31	259	33.637	230	29.53	249
28	7.319	191	52.90	256	33.867	192	32.02	243
Sept. 7	7.510	152	55.46	246	34.059	152	34.45	233
17	7.662	110	57.92	234	34.211	112	36.78	219
27	7.772	71	60.26	218	34.323	74	38.97	202
Okt. 6	7.843	34	62.44	198	34.397	38	40.99	181
16	7.877	0	64.42	174	34.435	4	42.80	159
26	7.877	33	66.16	149	34.439	26	44.39	134
Nov. 5	7.844	60	67.65	120	34.413	54	45.73	106
15	7.784	85	68.85	90	34.359	78	46.79	78
25	7.699	107	69.75	57	34.281	98	47.57	48
Dez. 5	7.592	124	70.32	23	34.183	116	48.05	16
15	7.468	138	70.55	11	34.067	129	48.21	16
25	7.330	146	70.44	43	33.938	138	48.05	46
35	7.184		70.01		33.800		47.59	
Mittl. Ort	4.998		43.39		31.559		21.92	
sec δ, tg δ	1.197		+0.658		1.160		+0.588	

Tag	21) α Cassiopeiae AR.		Dekl.		22) β Ceti AR.		Dekl.		25) ο Cassiopeiae AR.		Dekl.		24) 21 Cassiopeiae AR.		Dekl.	
1929	$0^h\ 36^m$		+56° 8′		$0^h\ 40^m$		−18° 22′		$0^h\ 40^m$		+47° 53′		$0^h\ 40^m$		+74° 35′	
Jan. 0	26.559	287	64.93	36	0.856	118	46.44	45	44.365	218	55.15	43	53.46	73	75.50	6
10	26.272	288	64.57	86	0.738	116	46.89	19	44.147	221	54.72	87	52.73	73	75.56	55
20	25.984	274	63.71	133	0.622	110	47.08	7	43.926	212	53.85	127	52.00	69	75.01	115
30	25.710	250	62.38	174	0.512	97	47.01	34	43.714	194	52.58	162	51.31	64	73.86	168
Feb. 9	25.460	213	60.64	207	0.415	81	46.67	61	43.520	165	50.96	190	50.67	55	72.18	214
19	25.247	163	58.57	232	0.334	59	46.06	88	43.355	127	49.06	209	50.12	44	70.04	250
März 1	25.084	105	56.25	247	0.275	30	45.18	115	43.228	81	46.97	220	49.68	31	67.54	278
11	24.979	36	53.78	250	0.245	4	44.03	140	43.147	25	44.77	219	49.37	16	64.76	291
21	24.943	36	51.28	242	0.249	41	42.63	165	43.122	35	42.58	210	49.21	1	61.85	293
31	24.979	113	48.86	226	0.290	82	40.98	186	43.157	97	40.48	191	49.20	15	58.92	283
Apr. 10	25.092	187	46.60	198	0.372	125	39.12	207	43.254	161	38.57	164	49.35	30	56.09	262
20	25.279	259	44.62	164	0.497	167	37.05	222	43.415	222	36.93	129	49.65	45	53.47	231
30	25.538	325	42.98	122	0.664	207	34.83	235	43.637	279	35.64	90	50.10	58	51.16	191
Mai 10	25.863	381	41.76	76	0.871	244	32.48	242	43.916	327	34.74	46	50.68	69	49.25	145
20	26.244	426	41.00	28	1.115	277	30.06	244	44.243	368	34.28	0	51.37	78	47.80	94
30	26.670	460	40.72	22	1.392	302	27.62	240	44.611	397	34.28	46	52.15	85	46.86	40
Juni 9	27.130	481	40.94	72	1.694	320	25.22	231	45.008	417	34.74	91	53.00	88	46.46	15
19	27.611	489	41.66	120	2.014	330	22.91	216	45.425	426	35.65	134	53.88	90	46.61	69
29	28.100	483	42.86	165	2.344	332	20.75	195	45.851	422	36.99	174	54.78	90	47.30	123
Juli 9	28.583	468	44.51	205	2.676	326	18.80	170	46.273	409	38.73	208	55.68	87	48.53	173
19	29.051	440	46.56	241	3.002	310	17.10	140	46.682	387	40.81	239	56.55	81	50.26	219
29	29.491	403	48.97	271	3.312	289	15.70	107	47.069	357	43.20	263	57.36	75	52.45	260
Aug. 8	29.894	360	51.68	295	3.601	260	14.63	72	47.426	318	45.83	282	58.11	67	55.05	296
18	30.254	308	54.63	313	3.861	228	13.91	36	47.744	277	48.65	295	58.78	57	58.01	325
28	30.562	255	57.76	325	4.089	190	13.55	1	48.021	231	51.60	302	59.35	47	61.26	347
Sept. 7	30.817	198	61.01	330	4.279	152	13.54	32	48.252	182	54.62	303	59.82	36	64.73	364
17	31.015	140	64.31	329	4.431	113	13.86	62	48.434	134	57.65	298	60.18	24	68.37	372
27	31.155	83	67.60	321	4.544	74	14.48	87	48.568	87	60.63	287	60.42	13	72.09	374
Okt. 6	[30] 31.238	27	70.81	307	[1] 4.618	38	15.35	107	[1] 48.655	40	63.50	272	[2] 60.55	0	75.83	367
16	31.265	27	73.88	287	4.656	5	16.42	120	48.695	4	66.22	251	60.55	12	79.50	352
26	31.238	77	76.75	261	4.661	24	17.62	129	48.691	46	68.73	225	60.43	23	83.02	329
Nov. 5	31.161	125	79.36	228	4.637	49	18.91	130	48.645	83	70.98	195	60.20	34	86.31	299
15	31.036	168	81.64	190	4.588	71	20.21	124	48.562	119	72.93	159	59.86	45	89.30	261
25	30.868	205	83.54	147	4.517	88	21.45	114	48.443	149	74.52	119	59.41	53	91.91	216
Dez. 5	30.663	238	85.01	100	4.429	101	22.59	99	48.294	175	75.71	77	58.88	61	94.07	163
15	30.425	262	86.01	49	4.328	110	23.58	80	48.119	196	76.48	33	58.27	68	95.70	106
25	30.163	278	86.50	1	4.218	115	24.38	58	47.923	210	76.81	14	57.59	71	96.76	45
35	29.885		86.49		4.103		24.96		47.713		76.67		56.88		97.21	
Mittl. Ort	27.932		53.57		1.575		33.93		45.574		45.67		55.49		60.92	
sec δ, tg δ	1.795		+1.491		1.054		−0.332		1.491		+1.107		3.766		+3.630	

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Tag	27) ζ Andromedae AR.		27) ζ Andromedae Dekl.		32) γ Cassiopeiae AR.		32) γ Cassiopeiae Dekl.		33) μ Andromedae AR.		33) μ Andromedae Dekl.		35) α Sculptoris AR.		35) α Sculptoris Dekl.	
1929	$0^h\ 43^m$		$+23°\ 52'$		$0^h\ 52^m$		$+60°\ 19'$		$0^h\ 52^m$		$+38°\ 6'$		$0^h\ 55^m$		$-29°\ 44'$	
Jan. 0	33.274	130	54.63	63	23.15	33	69.98	8	47.294	168	59.62	44	10.588	143	43.48	37
10	33.144	131	54.00	84	22.82	34	69.90	62	47.126	172	59.18	79	10.445	142	43.85	1
20	33.013	127	53.16	102	22.48	33	69.28	112	46.954	169	58.39	110	10.303	137	43.86	36
30	32.886	116	52.14	114	22.15	31	68.16	158	46.785	158	57.29	138	10.166	126	43.50	72
Feb. 9	32.770	98	51.00	121	21.84	27	66.58	197	46.627	136	55.91	158	10.040	109	42.78	107
19	32.672	74	49.79	123	21.57	22	64.61	227	46.491	108	54.33	172	9.931	85	41.71	141
März 1	32.598	42	48.56	117	21.35	15	62.34	248	46.383	71	52.61	178	9.846	55	40.30	171
11	32.556	4	47.39	107	21.20	8	59.86	256	46.312	25	50.83	175	9.791	21	38.59	200
21	32.552	38	46.32	88	21.12	0	57.30	256	46.287	24	49.08	163	9.770	20	36.59	225
31	32.590	84	45.44	66	21.12	9	54.74	242	46.311	78	47.45	144	9.790	63	34.34	247
Apr. 10	32.674	130	44.78	37	21.21	18	52.32	220	46.389	133	46.01	118	9.853	108	31.87	262
20	32.804	177	44.41	6	21.39	26	50.12	189	46.522	187	44.83	86	9.961	155	29.25	275
30	32.981	220	44.35	27	21.65	33	48.23	151	46.709	237	43.97	50	10.116	199	26.50	282
Mai 10	33.201	258	44.62	62	21.98	40	46.72	107	46.946	282	43.47	11	10.315	240	23.68	282
20	33.459	291	45.24	95	22.38	45	45.65	59	47.228	320	43.36	30	10.555	277	20.86	276
30	33.750	315	46.19	126	22.83	50	45.06	8	47.548	348	43.66	70	10.832	308	18.10	265
Juni 9	34.065	332	47.45	155	23.33	52	44.98	42	47.896	369	44.36	109	11.140	330	15.45	246
19	34.397	341	49.00	179	23.85	54	45.40	91	48.265	378	45.45	144	11.470	345	12.99	221
29	34.738	340	50.79	199	24.39	54	46.31	138	48.643	380	46.89	177	11.815	350	10.78	192
Juli 9	35.078	331	52.78	214	24.93	52	47.69	182	49.023	370	48.66	205	12.165	347	8.86	157
19	35.409	314	54.92	224	25.45	50	49.51	221	49.393	353	50.71	228	12.512	335	7.29	118
29	35.723	291	57.16	228	25.95	46	51.72	256	49.746	328	52.99	245	12.847	314	6.11	76
Aug. 8	36.014	262	59.44	228	26.41	42	54.28	284	50.074	298	55.44	257	13.161	288	5.35	34
18	36.276	229	61.72	222	26.83	36	57.12	307	50.372	262	58.01	264	13.449	254	5.01	9
28	36.505	192	63.94	212	27.19	31	60.19	324	50.634	222	60.65	266	13.703	216	5.10	50
Sept. 7	36.697	156	66.06	200	27.50	25	63.43	333	50.856	182	63.31	261	13.919	176	5.60	88
17	36.853	118	68.06	183	27.75	19	66.76	337	51.038	140	65.92	253	14.095	132	6.48	122
27	36.971	82	69.89	165	27.94	12	70.13	334	51.178	99	68.45	241	14.227	91	7.70	148
Okt. 6	37.053	48	71.54	144	28.06	6	73.47	325	51.277	60	70.86	224	14.318	49	9.18	169
16	37.101	16	72.98	122	28.12	1	76.72	308	51.337	23	73.10	203	14.367	12	10.87	180
26	37.117	14	74.20	99	28.11	6	79.80	285	51.360	13	75.13	180	14.379	24	12.67	184
Nov. 5	37.103	39	75.19	75	28.05	12	82.65	255	51.347	45	76.93	152	14.355	54	14.51	179
15	37.064	63	75.94	50	27.93	17	85.20	219	51.302	76	78.45	122	14.301	80	16.30	167
25	37.001	83	76.44	25	27.76	22	87.39	178	51.226	101	79.67	88	14.221	102	17.97	148
Dez. 5	36.918	100	76.69	0	27.54	27	89.17	131	51.125	126	80.55	54	14.119	119	19.45	122
15	36.818	113	76.69	24	27.27	29	90.48	80	50.999	144	81.09	17	14.000	131	20.67	92
25	36.705	123	76.45	49	26.98	32	91.28	26	50.855	158	81.26	20	13.869	139	21.59	58
35	36.582		75.96		26.66		91.54		50.697		81.06		13.730		22.17	
Mittl. Ort	34.243		52.32		24.46		57.43		48.317		52.59		11.106		27.78	
sec δ, tg δ	1.094		+0.443		2.020		+1.756		1.271		+0.784		1.152		−0.571	

Tag	36) ε Piscium AR.		36) ε Piscium Dekl.		38) β Phoenicis AR.		38) β Phoenicis Dekl.	
1929	$0^h\ 59^m$		+7° 30′		$1^h\ 2^m$		−47° 5′	
Jan. 0	14.588	110	26.80	62	54.762	217	75.97	16
10	14.478	114	26.18	65	54.545	214	76.13	34
20	14.364	113	25.53	65	54.331	206	75.79	83
30	14.251	107	24.88	60	54.125	191	74.96	130
Feb. 9	14.144	93	24.28	54	53.934	167	73.66	174
19	14.051	72	23.74	44	53.767	137	71.92	213
März 1	13.979	47	23.30	30	53.630	99	69.79	249
11	13.932	14	23.00	12	53.531	56	67.30	279
21	13.918	24	22.88	8	53.475	7	64.51	303
31	13.942	64	22.96	33	53.468	46	61.48	321
Apr. 10	14.006	108	23.29	57	53.514	102	58.27	332
20	14.114	151	23.86	84	53.616	157	54.95	338
30	14.265	193	24.70	110	53.773	213	51.57	335
Mai 10	14.458	230	25.80	134	53.986	264	48.22	326
20	14.688	263	27.14	156	54.250	310	44.96	310
30	14.951	290	28.70	175	54.560	350	41.86	285
Juni 9	15.241	308	30.45	189	54.910	380	39.01	255
19	15.549	319	32.34	200	55.290	401	36.46	217
29	15.868	323	34.34	203	55.691	413	34.29	176
Juli 9	16.191	318	36.37	204	56.104	413	32.53	129
19	16.509	305	38.41	198	56.517	402	31.24	79
29	16.814	285	40.39	187	56.919	381	30.45	27
Aug. 8	17.099	261	42.26	173	57.300	350	30.18	24
18	17.360	231	43.99	155	57.650	312	30.42	75
28	17.591	199	45.54	135	57.962	266	31.17	123
Sept. 7	17.790	164	46.89	113	58.228	215	32.40	164
17	17.954	130	48.02	89	58.443	161	34.04	199
27	18.084	95	48.91	67	58.604	105	36.03	226
Okt. 6*)	18.179	63	49.58	45	58.709	50	38.29	244
16	18.242	33	50.03	24	58.759	1	40.73	251
26	18.275	5	50.27	6	58.758	51	43.24	247
Nov. 5	18.280	20	50.33	10	58.707	93	45.71	234
15	18.260	43	50.23	24	58.614	131	48.05	209
25	18.217	62	49.99	36	58.483	162	50.14	178
Dez. 5	18.155	79	49.63	46	58.321	185	51.92	139
15	18.076	93	49.17	54	58.136	203	53.31	95
25	17.983	103	48.63	59	57.933	213	54.26	46
35	17.880		48.04		57.720		54.72	
Mittl. Ort	15.360		29.82		54.980		55.96	
sec δ, tg δ	1.009		+0.132		1.469		−1.076	

Tag	42) β Andromedae AR.		42) β Andromedae Dekl.		45) υ Piscium AR.		45) υ Piscium Dekl.	
1929	$1^h\ 5^m$		+35° 14′		$1^h\ 15^m$		+26° 53′	
Jan. 0	44.096	155	46.92	38	32.711	133	32.76	41
10	43.941	163	46.54	69	32.578	141	32.35	64
20	43.778	164	45.85	98	32.437	143	31.71	85
30	43.614	154	44.87	123	32.294	139	30.86	101
Feb. 9	43.460	138	43.64	142	32.155	125	29.85	114
19	43.322	113	42.22	155	32.030	105	28.71	120
März 1	43.209	78	40.67	161	31.925	75	27.51	121
11	43.131	37	39.06	158	31.850	38	26.30	115
21	43.094	11	37.48	148	31.812	4	25.15	103
31	43.105	63	36.00	130	31.816	50	24.12	84
Apr. 10	43.168	115	34.70	106	31.866	100	23.28	60
20	43.283	169	33.64	76	31.966	149	22.68	32
30	43.452	219	32.88	42	32.115	196	22.36	1
Mai 10	43.671	264	32.46	6	32.311	239	22.35	31
20	43.935	303	32.40	33	32.550	277	22.66	65
30	44.238	333	32.73	70	32.827	307	23.31	96
Juni 9	44.571	355	33.43	107	33.134	329	24.27	127
19	44.926	368	34.50	140	33.463	343	25.54	153
29	45.294	370	35.90	170	33.806	348	27.07	177
Juli 9	45.664	365	37.60	196	34.154	345	28.84	195
19	46.029	351	39.56	217	34.499	333	30.79	208
29	46.380	329	41.73	232	34.832	314	32.87	217
Aug. 8	46.709	301	44.05	243	35.146	290	35.04	221
18	47.010	268	46.48	249	35.436	261	37.25	220
28	47.278	231	48.97	249	35.697	227	39.45	214
Sept. 7	47.509	194	51.46	244	35.924	193	41.59	205
17	47.703	154	53.90	236	36.117	157	43.64	193
27	47.857	115	56.26	224	36.274	121	45.57	178
Okt. 6*)	47.972	77	58.50	207	36.395	86	47.35	160
16	48.049	40	60.57	189	36.481	52	48.95	140
26	48.089	6	62.46	166	36.533	21	50.35	120
Nov. 5	48.095	26	64.12	141	36.554	9	51.55	98
15	48.069	56	65.53	113	36.545	35	52.53	75
25	48.013	83	66.66	83	36.510	62	53.28	50
Dez. 5	47.930	108	67.49	52	36.448	85	53.78	25
15	47.822	128	68.01	18	36.363	105	54.03	0
25	47.694	145	68.19	16	36.258	121	54.03	25
35	47.549		68.03		36.137		53.78	
Mittl. Ort	45.013		40.49		33.510		28.79	
sec δ, tg δ	1.224		+0.707		1.121		+0.507	

*) Bei Stern 38), 42) und 45) lies Okt. 7

Tag	47) ϑ Ceti AR.		47) ϑ Ceti Dekl.		48) δ Cassiopeiae AR.		48) δ Cassiopeiae Dekl.		50) η Piscium AR.		50) η Piscium Dekl.		51) 40 Cassiopeiae AR.		51) 40 Cassiopeiae Dekl.	
1929	1h 20m		−8° 32′		1h 21m		+59° 51′		1h 27m		+14° 58′		1h 32m		+72° 40′	
Jan. 0	27.893	112	65.50	66	8.237	316	73.84	26	40.163	113	49.18	50	47.13	60	59.66	73
10	27.781	118	66.16	50	7.921	332	74.10	26	40.050	123	48.68	61	46.53	63	60.39	12
20	27.663	120	66.66	31	7.589	334	73.84	78	39.927	127	48.07	67	45.90	64	60.51	46
30	27.543	116	66.97	12	7.255	322	73.06	125	39.800	125	47.40	72	45.26	62	60.05	104
Feb. 9	27.427	106	67.09	9	6.933	293	71.81	167	39.675	116	46.68	73	44.64	57	59.01	155
19	27.321	89	67.00	31	6.640	251	70.14	201	39.559	99	45.95	70	44.07	50	57.46	201
März 1	27.232	65	66.69	55	6.389	193	68.13	227	39.460	75	45.25	63	43.57	40	55.45	236
11	27.167	35	66.14	78	6.196	124	65.86	242	39.385	42	44.62	51	43.17	28	53.09	261
21	27.132	0	65.36	104	6.072	45	63.44	247	39.343	5	44.11	35	42.89	16	50.48	276
31	27.132	40	64.32	127	6.027	38	60.97	242	39.338	37	43.76	14	42.73	1	47.72	279
Apr. 10	27.172	82	63.05	150	6.065	124	58.55	225	39.375	82	43.62	9	42.72	12	44.93	270
20	27.254	126	61.55	171	6.189	209	56.30	200	39.457	129	43.71	35	42.84	27	42.23	250
30	27.380	169	59.84	191	6.398	288	54.30	168	39.586	173	44.06	61	43.11	40	39.73	222
Mai 10	27.549	209	57.93	205	6.686	360	52.62	129	39.759	215	44.67	89	43.51	52	37.51	185
20	27.758	244	55.88	217	7.046	422	51.33	85	39.974	251	45.56	115	44.03	62	35.66	143
30	28.002	274	53.71	223	7.468	471	50.48	38	40.225	282	46.71	138	44.65	71	34.23	96
Juni 9	28.276	297	51.48	224	7.939	507	50.10	10	40.507	305	48.09	159	45.36	77	33.27	45
19	28.573	312	49.24	219	8.446	531	50.20	58	40.812	320	49.68	175	46.13	82	32.82	7
29	28.885	319	47.05	210	8.977	539	50.78	104	41.132	328	51.43	188	46.95	83	32.89	58
Juli 9	29.204	319	44.95	194	9.516	535	51.82	148	41.460	327	53.31	195	47.78	84	33.47	108
19	29.523	311	43.01	173	10.051	519	53.30	189	41.787	318	55.26	197	48.62	82	34.55	156
29	29.834	296	41.28	148	10.570	492	55.19	225	42.105	303	57.23	196	49.44	78	36.11	200
Aug. 8	30.130	273	39.80	121	11.062	455	57.44	256	42.408	282	59.19	188	50.22	73	38.11	240
18	30.403	248	38.59	90	11.517	410	60.00	281	42.690	256	61.07	177	50.95	67	40.51	275
28	30.651	217	37.69	58	11.927	359	62.81	302	42.946	226	62.84	163	51.62	59	43.26	305
Sept. 7	30.868	183	37.11	26	12.286	304	65.83	315	43.172	194	64.47	147	52.21	50	46.31	327
17	31.051	149	36.85	4	12.590	245	68.98	323	43.366	160	65.94	127	52.71	41	49.58	345
27	31.200	115	36.89	31	12.835	184	72.21	325	43.526	128	67.21	108	53.12	31	53.03	355
Okt. 7	31.315	81	37.20	55	13.019	124	75.46	321	43.654	95	68.29	87	53.43	21	56.58	358
16	31.396	49	37.75	74	13.143	62	78.67	309	43.749	64	69.16	69	53.64	10	60.16	354
26	31.445	19	38.49	89	13.205	1	81.76	291	43.813	35	69.85	48	53.74	1	63.70	341
Nov. 5	31.464	7	39.38	98	13.206	59	84.67	268	43.848	6	70.33	31	53.73	12	67.11	322
15	31.457	33	40.36	102	13.147	115	87.35	236	43.854	19	70.64	14	53.61	23	70.33	294
25	31.424	54	41.38	100	13.032	170	89.71	200	43.835	43	70.78	2	53.38	32	73.27	257
Dez. 5	31.370	74	42.38	96	12.862	219	91.71	157	43.792	66	70.76	17	53.06	41	75.84	214
15	31.296	90	43.34	86	12.643	261	93.28	110	43.726	85	70.59	30	52.65	50	77.98	165
25	31.206	104	44.20	74	12.382	296	94.38	60	43.641	102	70.29	43	52.15	56	79.63	109
35	31.102		44.94		12.086		94.98		43.539		69.86		51.59		80.72	
Mittl. Ort	28.429		57.39		9.262		60.95		40.818		48.95		48.20		44.59	
sec δ, tg δ	1.011		−0.150		1.992		+1.723		1.035		+0.268		3.359		+3.206	

Tag	52) υ Persei AR.	Δ	52) υ Persei Dekl.	Δ	54) α Eridani AR.	Δ	54) α Eridani Dekl.	Δ	55) 43 Cassiopeiae AR.	Δ	55) 43 Cassiopeiae Dekl.	Δ	57) φ Persei AR.	Δ	57) φ Persei Dekl.	Δ
1929	1h 33m		+48° 16′		1h 35m		−57° 35′		1h 36m		+67° 40′		1h 39m		+50° 19′	
Jan. 0	36.580	207	19.27	13	4.810	313	70.44	36	62.37	44	79.63	66	11.122	218	65.26	25
10	36.373	223	19.40	30	4.497	320	70.80	19	61.93	47	80.29	8	10.904	237	65.51	21
20	36.150	231	19.10	71	4.177	316	70.61	76	61.46	48	80.37	48	10.667	245	65.30	63
30	35.919	226	18.39	109	3.861	302	69.85	130	60.98	47	79.89	102	10.422	242	64.67	105
Febr. 9	35.693	210	17.30	144	3.559	278	68.55	180	60.51	43	78.87	151	10.180	227	63.62	140
19	35.483	183	15.86	171	3.281	245	66.75	226	60.08	38	77.36	194	9.953	198	62.22	169
März 1	35.300	144	14.15	190	3.036	202	64.49	266	59.70	31	75.42	227	9.755	159	60.53	192
11	35.156	94	12.25	199	2.834	150	61.83	300	59.39	22	73.15	251	9.596	109	58.61	204
21	35.062	38	10.26	202	2.684	92	58.83	327	59.17	12	70.64	263	9.487	49	56.57	207
31	35.024	25	8.24	193	2.592	27	55.56	348	59.05	0	68.01	264	9.438	16	54.50	202
Apr. 10	35.049	91	6.31	177	2.565	41	52.08	361	59.05	10	65.37	255	9.454	84	52.48	187
20	35.140	157	4.54	153	2.606	112	48.47	368	59.15	22	62.82	236	9.538	153	50.61	164
30	35.297	220	3.01	122	2.718	182	44.79	365	59.37	32	60.46	207	9.691	219	48.97	134
Mai 10	35.517	278	1.79	86	2.900	249	41.14	355	59.69	42	58.39	172	9.910	280	47.63	100
20	35.795	329	0.93	47	3.149	313	37.59	337	60.11	50	56.67	129	10.190	334	46.63	60
30	36.124	370	0.46	6	3.462	368	34.22	311	60.61	57	55.38	83	10.524	378	46.03	19
Juni 9	36.494	401	0.40	37	3.830	415	31.11	279	61.18	63	54.55	35	10.902	411	45.84	24
19	36.895	423	0.77	78	4.245	451	28.32	239	61.81	66	54.20	15	11.313	435	46.08	66
29	37.318	432	1.55	117	4.696	476	25.93	193	62.47	68	54.35	66	11.748	446	46.74	107
Juli 9	37.750	432	2.72	154	5.172	488	24.00	142	63.15	68	55.01	113	12.194	447	47.81	144
19	38.182	422	4.26	186	5.660	487	22.58	88	63.83	66	56.14	158	12.641	438	49.25	178
29	38.604	402	6.12	214	6.147	473	21.70	31	64.49	64	57.72	200	13.079	420	51.03	209
Aug. 8	39.006	375	8.26	238	6.620	446	21.39	25	65.13	60	59.72	238	13.499	392	53.12	234
18	39.381	342	10.64	256	7.066	407	21.64	83	65.73	55	62.10	270	13.891	360	55.46	254
28	39.723	304	13.20	269	7.473	359	22.47	135	66.28	49	64.80	297	14.251	321	58.00	270
Sept. 7	40.027	262	15.89	277	7.832	301	23.82	183	66.77	42	67.77	318	14.572	278	60.70	279
17	40.289	218	18.66	279	8.133	237	25.65	223	67.19	34	70.95	333	14.850	234	63.49	283
27	40.507	173	21.45	277	8.370	168	27.88	255	67.53	27	74.28	341	15.084	187	66.32	283
Okt. 7	40.680	128	24.22	269	8.538	98	30.43	278	67.80	19	77.69	343	15.271	140	69.15	278
16	40.808	82	26.91	256	8.636	28	33.21	287	67.99	11	81.12	338	15.411	93	71.93	266
26	40.890	37	29.47	239	8.664	39	36.08	287	68.10	2	84.50	325	15.504	46	74.59	250
Nov. 5	40.927	6	31.86	217	8.625	102	38.95	273	68.12	6	87.75	305	15.550	0	77.09	229
15	40.921	49	34.03	190	8.523	160	41.68	251	68.06	14	90.80	277	15.550	47	79.38	202
25	40.872	89	35.93	157	8.363	208	44.19	215	67.92	22	93.57	243	15.503	90	81.40	171
Dez. 5	40.783	127	37.50	122	8.155	250	46.34	174	67.70	30	96.00	201	15.413	130	83.11	135
15	40.656	161	38.72	83	7.905	282	48.08	124	67.40	36	98.01	153	15.283	167	84.46	95
25	40.495	189	39.55	41	7.623	305	49.32	71	67.04	41	99.54	100	15.116	198	85.41	52
35	40.306		39.96		7.318		50.03		66.63		100.54		14.918		85.93	
Mittl. Ort	37.399		8.83		4.371		49.65		63.31		65.24		11.910		54.27	
sec δ, tg δ	1.502		+1.121		1.866		−1.576		2.634		+2.436		1.567		+1.206	

Scheinbare Sternörter 1929

Tag	59) τ Ceti*) AR.		Dekl.		60) ο Piscium AR.		Dekl.		61) Lac. ε Sculptoris AR.		Dekl.		62) ζ Ceti AR.		Dekl.	
1929	$1^h\ 40^m$		$-16°\ 18'$		$1^h\ 41^m$		$+8°\ 47'$		$1^h\ 42^m$		$-25°\ 24'$		$1^h\ 47^m$		$-10°\ 40'$	
Jan. 0	45.803	122	49.60	69	37.952	107	61.98	55	18.955	135	38.90	74	56.937	110	74.83	74
10	45.681	131	50.29	44	37.845	118	61.43	56	18.820	144	39.64	41	56.827	123	75.57	55
20	45.550	136	50.73	18	37.727	125	60.87	58	18.676	148	40.05	6	56.704	129	76.12	35
30	45.414	135	50.91	11	37.602	126	60.29	55	18.528	147	40.11	30	56.575	130	76.47	12
Feb. 9	45.279	125	50.80	39	37.476	119	59.74	50	18.381	138	39.81	65	56.445	123	76.59	12
19	45.154	111	50.41	67	37.357	104	59.24	43	18.243	122	39.16	99	56.322	110	76.47	37
März 1	45.043	89	49.74	95	37.253	83	58.81	31	18.121	99	38.17	132	56.212	90	76.10	61
11	44.954	59	48.79	123	37.170	53	58.50	16	18.022	68	36.85	164	56.122	62	75.49	86
21	44.895	23	47.56	149	37.117	17	58.34	1	17.954	33	35.21	192	56.060	28	74.63	112
31	44.872	16	46.07	174	37.100	23	58.35	23	17.921	9	33.29	217	56.032	12	73.51	137
Apr. 10	44.888	59	44.33	196	37.123	66	58.58	45	17.930	54	31.12	239	56.044	54	72.14	160
20	44.947	104	42.37	216	37.189	112	59.03	69	17.984	100	28.73	257	56.098	98	70.54	181
30	45.051	148	40.21	232	37.301	156	59.72	94	18.084	147	26.16	270	56.196	142	68.73	200
Mai 10	45.199	191	37.89	243	37.457	199	60.66	117	18.231	192	23.46	277	56.338	184	66.73	215
20	45.390	229	35.46	250	37.656	236	61.83	140	18.423	232	20.69	279	56.522	223	64.58	225
30	45.619	261	32.96	251	37.892	267	63.23	158	18.655	267	17.90	274	56.745	257	62.33	231
Juni 9	45.880	289	30.45	245	38.159	293	64.81	174	18.922	297	15.16	262	57.002	283	60.02	232
19	46.169	307	28.00	235	38.452	311	66.55	186	19.219	318	12.54	245	57.285	303	57.70	226
29	46.476	318	25.65	218	38.763	319	68.41	192	19.537	331	10.09	220	57.588	315	55.44	215
Juli 9	46.794	321	23.47	196	39.082	322	70.33	194	19.868	336	7.89	191	57.903	320	53.29	199
19	47.115	316	21.51	168	39.404	316	72.27	190	20.204	332	5.98	156	58.223	315	51.30	177
29	47.431	303	19.83	136	39.720	303	74.17	183	20.536	322	4.42	117	58.538	305	49.53	150
Aug. 8	47.734	285	18.47	102	40.023	285	76.00	170	20.858	302	3.25	75	58.843	287	48.03	120
18	48.019	259	17.45	65	40.308	260	77.70	154	21.160	277	2.50	33	59.130	265	46.83	87
28	48.278	231	16.80	27	40.568	233	79.24	135	21.437	248	2.17	11	59.395	237	45.96	53
Sept. 7	48.509	198	16.53	9	40.801	203	80.59	114	21.685	213	2.28	51	59.632	207	45.43	20
17	48.707	164	16.62	44	41.004	171	81.73	91	21.898	177	2.79	90	59.839	175	45.23	13
27	48.871	128	17.06	74	41.175	140	82.64	70	22.075	139	3.69	123	60.014	141	45.36	43
Okt. 7	48.999	94	17.80	101	41.315	107	83.34	48	22.214	102	4.92	149	60.155	109	45.79	69
17	49.093	60	18.81	119	41.422	77	83.82	29	22.316	65	6.41	169	60.264	76	46.48	91
26	49.153	28	20.00	134	41.499	47	84.11	10	22.381	29	8.10	181	60.340	45	47.39	105
Nov. 5	49.181	2	21.34	140	41.546	20	84.21	5	22.410	4	9.91	183	60.385	16	48.44	116
15	49.179	30	22.74	140	41.566	7	84.16	19	22.406	34	11.74	179	60.401	12	49.60	119
25	49.149	54	24.14	133	41.559	32	83.97	31	22.372	61	13.53	167	60.389	37	50.79	117
Dez. 5	49.095	77	25.47	121	41.527	55	83.66	39	22.311	86	15.20	148	60.352	60	51.96	111
15	49.018	97	26.68	104	41.472	76	83.27	46	22.225	107	16.68	123	60.292	82	53.07	99
25	48.921	112	27.72	83	41.396	94	82.81	52	22.118	124	17.91	94	60.210	99	54.06	85
35	48.809		28.55		41.302		82.29		21.994		18.85		60.111		54.91	
Mittl. Ort	46.165		39.41		38.489		63.55		19.185		26.07		57.290		66.84	
sec δ, tg δ	1.042		−0.293		1.012		+0.155		1.107		−0.475		1.018		−0.189	

*) Die jährliche Parallaxe (0.31) ist bereits berücksichtigt.

Obere Kulmination Greenwich

Tag	64) α Trianguli AR.		64) α Trianguli Dekl.		63) ε Cassiopeiae AR.		63) ε Cassiopeiae Dekl.		65) ξ Piscium AR.		65) ξ Piscium Dekl.		66) β Arietis AR.		66) β Arietis Dekl.	
1929	$1^h 49^m$		+29° 13′		$1^h 49^m$		+63° 19′		$1^h 49^m$		+2° 50′		$1^h 50^m$		+20° 27′	
Jan. 0	$1^s.092$	129	66″.38	17	$15^s.19$	35	30″.57	69	$52^s.211$	103	11″.84	62	$42^s.224$	114	44″.46	34
10	0.963	145	66.21	41	14.84	37	31.26	15	52.108	117	11.22	57	42.110	129	44.12	48
20	0.818	155	65.80	64	14.47	39	31.41	38	51.991	125	10.65	51	41.981	138	43.64	62
30	0.663	156	65.16	83	14.08	39	31.03	90	51.866	126	10.14	42	41.843	140	43.02	72
Febr. 9	0.507	149	64.33	100	13.69	37	30.13	136	51.740	121	9.72	31	41.703	134	42.30	79
19	0.358	133	63.33	112	13.32	32	28.77	178	51.619	109	9.41	18	41.569	120	41.51	83
März 1	0.225	108	62.21	117	13.00	27	26.99	211	51.510	87	9.23	3	41.449	97	40.68	81
11	0.117	73	61.04	116	12.73	20	24.88	233	51.423	60	9.20	15	41.352	67	39.87	74
21	0.044	32	59.88	110	12.53	11	22.55	247	51.363	26	9.35	36	41.285	28	39.13	64
31	0.012	14	58.78	97	12.42	2	20.08	249	51.337	14	9.71	57	41.257	14	38.49	47
Apr. 10	0.026	65	57.81	78	12.40	7	17.59	241	51.351	57	10.28	80	41.271	61	38.02	26
20	0.091	116	57.03	54	12.47	17	15.18	223	51.408	101	11.08	104	41.332	109	37.76	3
30	0.207	168	56.49	27	12.64	26	12.95	197	51.509	145	12.12	126	41.441	157	37.73	24
Mai 10	0.375	214	56.22	3	12.90	35	10.98	164	51.654	188	13.38	147	41.598	201	37.97	50
20	0.589	257	56.25	34	13.25	43	9.34	123	51.842	225	14.85	165	41.799	242	38.47	78
30	0.846	292	56.59	65	13.68	48	8.11	81	52.067	259	16.50	181	42.041	275	39.25	105
Juni 9	1.138	321	57.24	96	14.16	54	7.30	34	52.326	285	18.31	192	42.316	303	40.30	128
19	1.459	341	58.20	123	14.70	57	6.96	14	52.611	303	20.23	197	42.619	321	41.58	149
29	1.800	351	59.43	147	15.27	59	7.10	61	52.914	315	22.20	200	42.940	333	43.07	167
Juli 9	2.151	354	60.90	169	15.86	60	7.71	106	53.229	318	24.20	195	43.273	336	44.74	179
19	2.505	348	62.59	185	16.46	59	8.77	149	53.547	314	26.15	186	43.609	331	46.53	188
29	2.853	335	64.44	197	17.05	56	10.26	189	53.861	303	28.01	173	43.940	318	48.41	191
Aug. 8	3.188	315	66.41	205	17.61	53	12.15	225	54.164	285	29.74	154	44.258	300	50.32	190
18	3.503	291	68.46	207	18.14	50	14.40	255	54.449	263	31.28	134	44.558	277	52.22	185
28	3.794	262	70.53	206	18.64	45	16.95	281	54.712	237	32.62	109	44.835	250	54.07	177
Sept. 7	4.056	230	72.59	201	19.09	39	19.76	301	54.949	207	33.71	85	45.085	219	55.84	164
17	4.286	196	74.60	192	19.48	33	22.77	315	55.156	177	34.56	59	45.304	188	57.48	150
27	4.482	162	76.52	180	19.81	26	25.92	323	55.333	145	35.15	34	45.492	156	58.98	133
Okt. 7	4.644	128	78.32	167	20.07	20	29.15	325	55.478	114	35.49	11	45.648	123	60.31	116
17	4.772	94	79.99	151	20.27	13	32.40	320	55.592	83	35.60	10	45.771	91	61.47	99
26	4.866	60	81.50	134	20.40	6	35.60	310	55.675	54	35.50	27	45.862	61	62.46	80
Nov. 5	4.926	28	82.84	114	20.46	1	38.70	291	55.729	25	35.23	41	45.923	30	63.26	63
15	4.954	4	83.98	93	20.45	8	41.61	266	55.754	2	34.82	52	45.953	2	63.89	44
25	4.950	34	84.91	71	20.37	15	44.27	234	55.752	27	34.30	58	45.955	27	64.33	28
Dez. 5	4.916	63	85.62	48	20.22	21	46.61	195	55.725	50	33.72	63	45.928	53	64.61	10
15	4.853	90	86.10	24	20.01	27	48.56	151	55.675	73	33.09	65	45.875	77	64.71	7
25	4.763	113	86.34	1	19.74	31	50.07	101	55.602	91	32.44	63	45.798	100	64.64	24
35	4.650		86.33		19.43		51.08		55.511		31.81		45.698		64.40	
Mittl. Ort	1.705		61.10		15.96		16.83		52.662		15.23		42.781		41.94	
sec δ, tg δ	1.146		+0.560		2.227		+1.990		1.001		+0.050		1.067		+0.373	

Scheinbare Sternörter 1929

Tag	67) ψ Phoenicis AR.		67) ψ Phoenicis Dekl.		68) χ Eridani AR.		68) χ Eridani Dekl.	
1929	1h 50m		−46° 38′		1h 53m		−51° 57′	
Jan. 0	48.255	218	78.49	70	12.094	256	62.68	66
10	48.037	230	79.19	19	11.838	267	63.34	13
20	47.807	232	79.38	31	11.571	270	63.47	42
30	47.575	229	79.07	82	11.301	265	63.05	94
Febr. 9	47.346	216	78.25	130	11.036	250	62.11	145
19	47.130	194	76.95	175	10.786	225	60.66	191
März 1	46.936	163	75.20	216	10.561	192	58.75	234
11	46.773	126	73.04	252	10.369	149	56.41	270
21	46.647	80	70.52	283	10.220	99	53.71	302
31	46.567	29	67.69	308	10.121	44	50.69	326
Apr. 10	46.538	25	64.61	327	10.077	17	47.43	344
20	46.563	84	61.34	340	10.094	80	43.99	355
30	46.647	142	57.94	345	10.174	143	40.44	359
Mai 10	46.789	197	54.49	342	10.317	205	36.85	354
20	46.986	251	51.07	333	10.522	263	33.31	342
30	47.237	297	47.74	315	10.785	315	29.89	322
Juni 9	47.534	337	44.59	290	11.100	360	26.67	295
19	47.871	367	41.69	259	11.460	395	23.72	260
29	48.238	390	39.10	219	11.855	420	21.12	218
Juli 9	48.628	401	36.91	176	12.275	435	18.94	172
19	49.029	402	35.15	126	12.710	437	17.22	120
29	49.431	392	33.89	74	13.147	429	16.02	65
Aug. 8	49.823	374	33.15	20	13.576	409	15.37	9
18	50.197	345	32.95	34	13.985	379	15.28	47
28	50.542	309	33.29	87	14.364	340	15.75	102
Sept. 7	50.851	266	34.16	136	14.704	293	16.77	151
17	51.117	218	35.52	179	14.997	240	18.28	196
27	51.335	168	37.31	215	15.237	184	20.24	232
Okt. 7	51.503	115	39.46	243	15.421	124	22.56	258
17	51.618	62	41.89	259	15.545	65	25.14	275
26	51.680	12	44.48	266	15.610	7	27.89	281
Nov. 5	51.692	36	47.14	261	15.617	48	30.70	273
15	51.656	81	49.75	246	15.569	100	33.43	256
25	51.575	121	52.21	221	15.469	146	35.99	228
Dez. 5	51.454	155	54.42	187	15.323	185	38.27	192
15	51.299	185	56.29	146	15.138	218	40.19	148
25	51.114	207	57.75	100	14.920	243	41.67	98
35	50.907		58.75		14.677		42.65	
Mittl. Ort	48.026		60.52		11.674		43.77	
sec δ, tg δ	1.457		−1.059		1.623		−1.278	

Tag	72) α Hydri AR.		72) α Hydri Dekl.		71) υ Ceti AR.		71) υ Ceti Dekl.	
1929	1h 56m		−61° 54′		1h 56m		−21° 24′	
Jan. 0	32.86	37	74.46	58	39.385	125	87.44	83
10	32.49	39	75.04	1	39.260	137	88.27	54
20	32.10	39	75.03	59	39.123	145	88.81	21
30	31.71	38	74.44	115	38.978	146	89.02	11
Febr. 9	31.33	36	73.29	168	38.832	140	88.91	44
19	30.97	32	71.61	217	38.692	127	88.47	76
März 1	30.65	28	69.44	260	38.565	106	87.71	109
11	30.37	23	66.84	297	38.459	79	86.62	138
21	30.14	16	63.87	327	38.380	44	85.24	168
31	29.98	9	60.60	351	38.336	4	83.56	193
Apr. 10	29.89	1	57.09	366	38.332	40	81.63	217
20	29.88	7	53.43	375	38.372	86	79.46	237
30	29.95	14	49.68	375	38.458	131	77.09	252
Mai 10	30.09	23	45.93	366	38.589	176	74.57	262
20	30.32	30	42.27	351	38.765	217	71.95	268
30	30.62	36	38.76	327	38.982	254	69.27	266
Juni 9	30.98	43	35.49	294	39.236	283	66.61	259
19	31.41	47	32.55	255	39.519	306	64.02	246
29	31.88	51	30.00	210	39.825	321	61.56	225
Juli 9	32.39	53	27.90	159	40.146	328	59.31	199
19	32.92	53	26.31	104	40.474	326	57.32	169
29	33.45	53	25.27	46	40.800	317	55.63	133
Aug. 8	33.98	51	24.81	14	41.117	301	54.30	94
18	34.49	48	24.95	72	41.418	280	53.36	53
28	34.97	42	25.67	128	41.698	252	52.83	12
Sept. 7	35.39	36	26.95	179	41.950	221	52.71	29
17	35.75	30	28.74	223	42.171	187	53.00	67
27	36.05	22	30.97	259	42.358	152	53.67	100
Okt. 7	36.27	14	33.56	285	42.510	116	54.67	128
17	36.41	7	36.41	299	42.626	81	55.95	150
26	36.48	2	39.40	302	42.707	48	57.45	165
Nov. 5	36.46	10	42.42	291	42.755	15	59.10	171
15	36.36	16	45.33	270	42.770	16	60.81	170
25	36.20	23	48.03	238	42.754	44	62.51	162
Dez. 5	35.97	28	50.41	196	42.710	70	64.13	146
15	35.69	33	52.37	148	42.640	93	65.59	126
25	35.36	36	53.85	93	42.547	112	66.85	100
35	35.00		54.78		42.435		67.85	
Mittl. Ort	31.92		54.11		39.572		76.37	
sec δ, tg δ	2.124		−1.874		1.074		−0.392	

Tag	70) 50 Cassiopeiae				73) γ Andromedae				74) α Arietis				75) β Trianguli			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
1929	1h 57m		+72° 4′		1h 59m		+41° 59′		2h 3m		+23° 7′		2h 5m		+34° 39′	
Jan. 0	19.26	54	58.90	102	31.330	164	32.25	22	9.443	113	42.68	23	18.158	136	15.29	7
10	18.72	60	59.92	45	31.166	185	32.47	14	9.330	131	42.45	40	18.022	156	15.36	22
20	18.12	61	60.37	14	30.981	198	32.33	49	9.199	143	42.05	56	17.866	170	15.14	49
30	17.51	61	60.23	71	30.783	201	31.84	83	9.056	147	41.49	68	17.696	175	14.65	75
Febr. 9	16.90	58	59.52	126	30.582	194	31.01	111	8.909	144	40.81	79	17.521	170	13.90	98
19	16.32	52	58.26	173	30.388	176	29.90	136	8.765	131	40.02	86	17.351	156	12.92	115
März 1	15.80	44	56.53	213	30.212	147	28.54	154	8.634	109	39.16	88	17.195	131	11.77	127
11	15.36	33	54.40	244	30.065	106	27.00	164	8.525	80	38.28	84	17.064	96	10.50	133
21	15.03	22	51.96	263	29.959	59	25.36	166	8.445	41	37.44	75	16.968	54	9.17	131
31	14.81	8	49.33	272	29.900	3	23.70	161	8.404	1	36.69	62	16.914	5	7.86	123
Apr. 10	14.73	5	46.61	269	29.897	55	22.09	147	8.405	49	36.07	43	16.909	48	6.63	109
20	14.78	20	43.92	256	29.952	116	20.62	127	8.454	99	35.64	21	16.957	103	5.54	88
30	14.98	32	41.36	232	30.068	175	19.35	101	8.553	147	35.43	4	17.060	158	4.66	63
Mai 10	15.30	45	39.04	202	30.243	230	18.34	70	8.700	193	35.47	31	17.218	208	4.03	34
20	15.75	56	37.02	163	30.473	280	17.64	36	8.893	236	35.78	59	17.426	256	3.69	3
30	16.31	65	35.39	120	30.753	322	17.28	0	9.129	272	36.37	86	17.682	295	3.66	31
Juni 9	16.96	72	34.19	73	31.075	356	17.28	37	9.401	301	37.23	111	17.977	327	3.97	63
19	17.68	78	33.46	24	31.431	381	17.65	73	9.702	322	38.34	133	18.304	350	4.60	93
29	18.46	81	33.22	27	31.812	395	18.38	106	10.024	336	39.67	153	18.654	365	5.53	122
Juli 9	19.27	82	33.49	76	32.207	400	19.44	139	10.360	340	41.20	168	19.019	371	6.75	147
19	20.09	82	34.25	124	32.607	396	20.83	166	10.700	337	42.88	180	19.390	367	8.22	168
29	20.91	80	35.49	169	33.003	383	22.49	190	11.037	328	44.68	185	19.757	357	9.90	187
Aug. 8	21.71	75	37.18	210	33.386	364	24.39	209	11.365	310	46.53	188	20.114	340	11.77	199
18	22.46	71	39.28	247	33.750	337	26.48	225	11.675	289	48.41	186	20.454	316	13.76	208
28	23.17	64	41.75	279	34.087	307	28.73	234	11.964	263	50.27	179	20.770	288	15.84	212
Sept. 7	23.81	56	44.54	305	34.394	272	31.07	240	12.227	234	52.06	170	21.058	258	17.96	212
17	24.37	48	47.59	326	34.666	236	33.47	242	12.461	203	53.76	158	21.316	224	20.08	209
27	24.85	38	50.85	341	34.902	196	35.89	238	12.664	172	55.34	145	21.540	190	22.17	202
Okt. 7	25.23	30	54.26	347	35.098	157	38.27	232	12.836	139	56.79	128	21.730	154	24.19	192
17	25.53	19	57.73	349	35.255	117	40.59	221	12.975	107	58.07	112	21.884	118	26.11	179
26	25.72	8	61.22	342	35.372	78	42.80	206	13.082	76	59.19	96	22.002	83	27.90	164
Nov. 5	25.80	3	64.64	327	35.450	38	44.86	188	13.158	44	60.15	78	22.085	47	29.54	147
15	25.77	13	67.91	304	35.488	2	46.74	166	13.202	14	60.93	60	22.132	12	31.01	127
25	25.64	24	70.95	273	35.486	40	48.40	140	13.216	16	61.53	43	22.144	23	32.28	104
Dez. 5	25.40	33	73.68	234	35.446	78	49.80	112	13.200	45	61.96	25	22.121	57	33.32	80
15	25.07	43	76.02	190	35.368	113	50.92	79	13.155	73	62.21	6	22.064	88	34.12	54
25	24.64	50	77.92	137	35.255	143	51.71	45	13.082	97	62.27	11	21.976	117	34.66	25
35	24.14		79.29		35.112		52.16		12.985		62.16		21.859		34.91	
Mittl. Ort	19.94		43.84		31.932		23.19		9.943		39.08		18.697		8.20	
sec δ, tg δ	3.250		+3.092		1.345		+0.900		1.087		+0.427		1.216		+0.691	

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Tag	76) 55 Cassiopeiae				78) Lac. μ Fornacis				80) 67 Ceti				85) ξ² Ceti			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
1929	2h 8m		+66° 11′		2h 9m		−31° 2′		2h 13m		−6° 44′		2h 24m		+8° 8′	
Jan. 0	52.57	38	48.32	100	46.955	146	96.12	95	26.187	102	61.03	78	22.569	95	32.81	51
10	52.19	42	49.32	47	46.809	161	97.07	57	26.085	119	61.81	63	22.474	114	32.30	52
20	51.77	44	49.79	9	46.648	171	97.64	16	25.966	130	62.44	46	22.360	129	31.78	50
30	51.33	45	49.70	62	46.477	173	97.80	26	25.836	136	62.90	26	22.231	137	31.28	46
Febr. 9	50.88	43	49.08	113	46.304	168	97.54	65	25.700	134	63.16	6	22.094	137	30.82	41
19	50.45	39	47.95	159	46.136	156	96.89	105	25.566	124	63.22	16	21.957	130	30.41	34
März 1	50.06	34	46.36	196	45.980	135	95.84	143	25.442	107	63.06	38	21.827	114	30.07	23
11	49.72	26	44.40	225	45.845	106	94.41	178	25.335	82	62.68	62	21.713	88	29.84	10
21	49.46	17	42.15	244	45.739	70	92.63	209	25.253	50	62.06	85	21.625	57	29.74	5
31	49.29	7	39.71	253	45.669	29	90.54	237	25.203	13	61.21	110	21.568	18	29.79	24
Apr. 10	49.22	3	37.18	250	45.640	17	88.17	261	25.190	30	60.11	133	21.550	24	30.03	45
20	49.25	14	34.68	238	45.657	65	85.56	280	25.220	74	58.78	155	21.574	70	30.48	66
30	49.39	24	32.30	217	45.722	116	82.76	293	25.294	119	57.23	176	21.644	116	31.14	89
Mai 10	49.63	34	30.13	188	45.838	163	79.83	301	25.413	163	55.47	193	21.760	161	32.03	109
20	49.97	43	28.25	151	46.001	209	76.82	301	25.576	203	53.54	206	21.921	202	33.12	131
30	50.40	51	26.74	111	46.210	249	73.81	296	25.779	238	51.48	216	22.123	239	34.43	148
Juni 9	50.91	56	25.63	66	46.459	283	70.85	282	26.017	269	49.32	219	22.362	269	35.91	163
19	51.47	61	24.97	20	46.742	311	68.03	263	26.286	291	47.13	219	22.631	292	37.54	174
29	52.08	64	24.77	28	47.053	330	65.40	236	26.577	306	44.94	213	22.923	309	39.28	180
Juli 9	52.72	66	25.05	74	47.383	341	63.04	203	26.883	314	42.81	200	23.232	317	41.08	182
19	53.38	65	25.79	118	47.724	343	61.01	165	27.197	315	40.81	182	23.549	318	42.90	179
29	54.03	64	26.97	161	48.067	337	59.36	123	27.512	308	38.99	160	23.867	313	44.69	171
Aug. 8	54.67	61	28.58	199	48.404	323	58.13	76	27.820	294	37.39	133	24.180	300	46.40	158
18	55.28	58	30.57	234	48.727	303	57.37	29	28.114	275	36.06	104	24.480	283	47.98	143
28	55.86	52	32.91	262	49.030	275	57.08	18	28.389	252	35.02	72	24.763	261	49.41	124
Sept. 7	56.38	47	35.53	288	49.305	243	57.26	65	28.641	225	34.30	40	25.024	236	50.65	102
17	56.85	41	38.41	306	49.548	208	57.91	108	28.866	196	33.90	8	25.260	208	51.67	81
27	57.26	34	41.47	319	49.756	171	58.99	145	29.062	166	33.82	21	25.468	180	52.48	58
Okt. 7	57.60	26	44.66	326	49.927	131	60.44	175	29.228	134	34.03	49	25.648	150	53.06	36
17	57.86	19	47.92	326	50.058	92	62.19	199	29.362	103	34.52	71	25.798	121	53.42	17
26*)	[24] 58.05	12	51.18	320	[24] 50.150	54	64.18	213	[25] 29.465	73	35.23	88	[28] 25.919	91	53.59	0
Nov. 5	58.17	3	54.38	307	50.204	16	66.31	218	29.538	43	36.11	101	26.010	61	53.59	15
15	58.20	5	57.45	285	50.220	19	68.49	213	29.581	13	37.12	107	26.071	32	53.44	27
25	58.15	13	60.30	258	50.201	52	70.62	200	29.594	14	38.19	109	26.103	4	53.17	37
Dez. 5	58.02	21	62.88	222	50.149	83	72.62	179	29.580	40	39.28	106	26.107	26	52.80	44
15	57.81	28	65.10	180	50.066	109	74.41	151	29.540	66	40.34	98	26.081	52	52.36	48
25	57.53	34	66.90	132	49.957	133	75.92	118	29.474	88	41.32	87	26.029	78	51.88	50
35	57.19		68.22		49.824		77.10		29.386		42.19		25.951		51.38	
Mittl. Ort	53.11		34.11		46.917		82.86		26.430		55.17		22.868		33.57	
sec δ, tg δ	2.477		+2.266		1.167		−0.602		1.007		−0.118		1.010		+0.143	

*) Bei Stern 85 lies Okt. 27

Tag	87) 36 H. Cassiopeiae AR.		Dekl.		90) μ Hydri AR.		Dekl.	
1929	$2^h 31^m$		+72° 30′		$2^h 33^m$		−79° 24′	
Jan. 0	14.29	51	48.41	145	13.21	113	89.04	80
10	13.78	57	49.86	90	12.08	118	89.84	19
20	13.21	62	50.76	32	10.90	122	90.03	42
30	12.59	63	51.08	25	9.68	120	89.61	101
Febr. 9	11.96	63	50.83	82	8.48	116	88.60	157
19	11.33	58	50.01	133	7.32	109	87.03	208
März 1	10.75	52	48.68	179	6.23	99	84.95	254
11	10.23	42	46.89	216	5.24	87	82.41	293
21	9.81	31	44.73	243	4.37	72	79.48	327
31	9.50	18	42.30	260	3.65	55	76.21	351
Apr. 10	9.32	5	39.70	267	3.10	38	72.70	368
20	9.27	10	37.03	262	2.72	19	69.02	379
30	9.37	24	34.41	247	2.53	1	65.23	381
Mai 10	9.61	37	31.94	224	2.54	20	61.42	373
20	9.98	49	29.70	192	2.74	39	57.69	359
30	10.47	60	27.78	155	3.13	58	54.10	336
Juni 9	11.07	69	26.23	113	3.71	74	50.74	305
19	11.76	76	25.10	68	4.45	89	47.69	267
29	12.52	82	24.42	20	5.34	102	45.02	222
Juli 9	13.34	84	24.22	28	6.36	111	42.80	170
19	14.18	86	24.50	76	7.47	117	41.10	115
29	15.04	85	25.26	121	8.64	120	39.95	56
Aug. 8	15.89	83	26.47	164	9.84	119	39.39	4
18	16.72	79	28.11	204	11.03	115	39.43	66
28	17.51	73	30.15	239	12.18	107	40.09	124
Sept. 7	18.24	67	32.54	270	13.25	94	41.33	178
17	18.91	59	35.24	296	14.19	80	43.11	226
27	19.50	51	38.20	316	14.99	62	45.37	266
Okt. 7	20.01	42	41.36	331	15.61	42	48.03	296
17	20.43	31	44.67	338	16.03	21	50.99	314
27	20.74	21	48.05	339	16.24	2	54.13	320
Nov. 5	[30] 20.95	9	51.44	331	[30] 16.22	24	57.33	312
15	21.04	2	54.75	317	15.98	45	60.45	294
25	21.02	13	57.92	293	15.53	65	63.39	262
Dez. 5	20.89	25	60.85	262	14.88	82	66.01	222
15	20.64	35	63.47	223	14.06	97	68.23	172
25	20.29	45	65.70	177	13.09	108	69.95	116
35	19.84		67.47		12.01		71.11	
Mittl. Ort	14.43		33.49		8.01		69.57	
sec δ, tg δ	3.327		+3.173		5.446		−5.353	

Tag	89) ν Arietis AR.		Dekl.		91) δ Ceti AR.		Dekl.	
1929	$2^h 34^m$		+21° 39′		$2^h 35^m$		+0° 1′	
Jan. 0	46.473	99	22.80	14	50.282	91	20.02	70
10	46.374	122	22.66	27	50.191	113	19.32	62
20	46.252	140	22.39	41	50.078	128	18.70	51
30	46.112	151	21.98	51	49.950	138	18.19	38
Febr. 9	45.961	153	21.47	61	49.812	140	17.81	24
19	45.808	146	20.86	67	49.672	135	17.57	9
März 1	45.662	131	20.19	69	49.537	120	17.48	9
11	45.531	104	19.50	68	49.417	98	17.57	27
21	45.427	70	18.82	61	49.319	67	17.84	47
31	45.357	29	18.21	51	49.252	31	18.31	69
Apr. 10	45.328	16	17.70	35	49.221	11	19.00	91
20	45.344	65	17.35	17	49.232	55	19.91	112
30	45.409	115	17.18	5	49.287	101	21.03	133
Mai 10	45.524	163	17.23	29	49.388	145	22.36	153
20	45.687	207	17.52	53	49.533	187	23.89	170
30	45.894	246	18.05	77	49.720	224	25.59	183
Juni 9	46.140	280	18.82	100	49.944	256	27.42	193
19	46.420	305	19.82	121	50.200	282	29.35	198
29	46.725	323	21.03	138	50.482	299	31.33	197
Juli 9	47.048	333	22.41	152	50.781	310	33.30	192
19	47.381	336	23.93	161	51.091	313	35.22	181
29	47.717	331	25.54	167	51.404	309	37.03	166
Aug. 8	48.048	320	27.21	168	51.713	300	38.69	146
18	48.368	303	28.89	166	52.013	284	40.15	122
28	48.671	282	30.55	160	52.297	264	41.37	96
Sept. 7	48.953	257	32.15	150	52.561	241	42.33	68
17	49.210	231	33.65	138	52.802	214	43.01	40
27	49.441	201	35.03	126	53.016	186	43.41	13
Okt. 7	49.642	172	36.29	110	53.202	158	43.54	12
17	49.814	141	37.39	96	53.360	128	43.42	34
27	49.955	110	38.35	81	53.488	98	43.08	52
Nov. 5	[30] 50.065	78	39.16	67	[31] 53.586	69	42.56	66
15	50.143	46	39.83	51	53.655	38	41.90	77
25	50.189	15	40.34	38	53.693	9	41.13	81
Dez. 5	50.204	18	40.72	24	53.702	20	40.32	82
15	50.186	50	40.96	9	53.682	48	39.50	80
25	50.136	79	41.05	5	53.634	74	38.70	76
35	50.057		41.00		53.560		37.94	
Mittl. Ort	46.791		19.19		50.464		23.03	
sec δ, tg δ	1.076		+0.397		1.000		0.000	

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Tag	93) ϑ Persei AR.		Dekl.		97) π Ceti AR.		Dekl.	
1929	2h 39m		+48° 55′		2h 40m		−14° 9′	
Jan. 0	20.029	170	56.21	77	44.533	101	37.89	99
10	19.859	204	56.98	39	44.432	123	38.88	77
20	19.655	229	57.37	2	44.309	139	39.65	51
30	19.426	244	57.35	41	44.170	149	40.16	24
Febr. 9	19.182	245	56.94	78	44.021	151	40.40	4
19	18.937	234	56.16	112	43.870	146	40.36	32
März 1	18.703	208	55.04	141	43.724	132	40.04	61
11	18.495	170	53.63	161	43.592	110	39.43	89
21	18.325	121	52.02	176	43.482	80	38.54	117
31	18.204	63	50.26	181	43.402	43	37.37	144
Apr. 10	18.141	2	48.45	178	43.359	2	35.93	168
20	18.143	70	46.67	167	43.357	42	34.25	191
30	18.213	138	45.00	150	43.399	88	32.34	211
Mai 10	18.351	205	43.50	125	43.487	134	30.23	226
20	18.556	263	42.25	96	43.621	177	27.97	238
30	18.819	318	41.29	64	43.798	216	25.59	244
Juni 9	19.137	363	40.65	28	44.014	249	23.15	245
19	19.500	399	40.37	9	44.263	276	20.70	239
29	19.899	423	40.46	45	44.539	297	18.31	228
Juli 9	20.322	439	40.91	79	44.836	310	16.03	210
19	20.761	444	41.70	112	45.146	314	13.93	187
29	21.205	439	42.82	143	45.460	313	12.06	158
Aug. 8	21.644	427	44.25	169	45.773	305	10.48	125
18	22.071	407	45.94	192	46.078	289	9.23	90
28	22.478	380	47.86	211	46.367	270	8.33	52
Sept. 7	22.858	349	49.97	226	46.637	247	7.81	13
17	23.207	315	52.23	236	46.884	219	7.68	25
27	23.522	275	54.59	243	47.103	190	7.93	59
Okt. 7	23.797	235	57.02	245	47.293	159	8.52	90
17	24.032	192	59.47	242	47.452	127	9.42	115
27	24.224	146	61.89	236	47.579	96	10.57	135
Nov. 5	24.370	99	64.25	225	47.675	65	11.92	148
15	24.469	51	66.50	210	47.740	32	13.40	153
25	24.520	2	68.60	189	47.772	1	14.93	152
Dez. 5	24.522	48	70.49	164	47.773	29	16.45	145
15	24.474	96	72.13	134	47.744	58	17.90	131
25	24.378	140	73.47	100	47.686	85	19.21	113
35	24.238		74.47		47.601		20.34	
Mittl. Ort	20.359		45.39		44.552		30.77	
sec δ, tg δ	1.522		+1.148		1.031		−0.252	

Tag	98) μ Ceti AR.		Dekl.		100) 41 Arietis AR.		Dekl.	
1929	2h 41m		+9° 48′		2h 45m		+26° 58′	
Jan. 0	5.819	88	55.17	46	47.672	99	13.36	7
10	5.731	111	54.71	48	47.573	126	13.43	11
20	5.620	128	54.23	47	47.447	148	13.32	29
30	5.492	140	53.76	45	47.299	161	13.03	46
Febr. 9	5.352	143	53.31	41	47.138	165	12.57	61
19	5.209	138	52.90	36	46.973	160	11.96	74
März 1	5.071	124	52.54	27	46.813	144	11.22	81
11	4.947	101	52.27	17	46.669	119	10.41	85
21	4.846	71	52.10	2	46.550	84	9.56	84
31	4.775	33	52.08	14	46.466	42	8.72	77
Apr. 10	4.742	10	52.22	33	46.424	6	7.95	66
20	4.752	55	52.55	54	46.430	56	7.29	49
30	4.807	101	53.09	75	46.486	107	6.80	29
Mai 10	4.908	147	53.84	96	46.593	158	6.51	6
20	5.055	190	54.80	116	46.751	205	6.45	18
30	5.245	228	55.96	135	46.956	247	6.63	44
Juni 9	5.473	261	57.31	150	47.203	282	7.07	69
19	5.734	286	58.81	162	47.485	310	7.76	92
29	6.020	304	60.43	170	47.795	330	8.68	113
Juli 9	6.324	316	62.13	173	48.125	343	9.81	132
19	6.640	319	63.86	172	48.468	347	11.13	146
29	6.959	316	65.58	166	48.815	345	12.59	157
Aug. 8	7.275	306	67.24	156	49.160	334	14.16	163
18	7.581	292	68.80	142	49.494	319	15.79	166
28	7.873	272	70.22	124	49.813	299	17.45	166
Sept. 7	8.145	249	71.46	105	50.112	275	19.11	161
17	8.394	223	72.51	84	50.387	249	20.72	155
27	8.617	197	73.35	63	50.636	221	22.27	145
Okt. 7	8.814	168	73.98	42	50.857	190	23.72	135
17	8.982	139	74.40	23	51.047	159	25.07	124
27	9.121	110	74.63	7	51.206	127	26.31	110
Nov. 5	9.231	80	74.70	8	51.333	94	27.41	97
15	9.311	49	74.62	20	51.427	60	28.38	83
25	9.360	19	74.42	30	51.487	25	29.21	68
Dez. 5	9.379	12	74.12	37	51.512	10	29.89	53
15	9.367	41	73.75	41	51.502	45	30.42	36
25	9.326	69	73.34	45	51.457	78	30.78	18
35	9.257		72.89		51.379		30.96	
Mittl. Ort	6.043		55.02		47.950		8.09	
sec δ, tg δ	1.015		+0.173		1.122		+0.509	

Tag	101) β Fornacis AR.		101) β Fornacis Dekl.		102) τ² Eridani AR.		102) τ² Eridani Dekl.		103) τ Persei AR.		103) τ Persei Dekl.		104) η Eridani AR.		104) η Eridani Dekl.	
1929	2h 46m		−32° 41′		2h 47m		−21° 17′		2h 49m		+52° 28′		2h 52m		−9° 10′	
	s		″		s		″		s		″		s		″	
Jan. 0	7.412	141	83.96	127	49.159	111	54.63	116	12.425	182	34.97	98	57.442	91	52.72	97
10	7.271	164	85.23	87	49.048	133	55.79	85	12.243	222	35.95	57	57.351	115	53.69	78
20	7.107	181	86.10	45	48.915	151	56.64	53	12.021	252	36.52	16	57.236	133	54.47	57
30	6.926	190	86.55	2	48.764	162	57.17	20	11.769	269	36.68	27	57.103	145	55.04	34
Febr. 9	6.736	192	86.57	41	48.602	165	57.37	15	11.500	275	36.41	68	56.958	150	55.38	11
19	6.544	186	86.16	84	48.437	159	57.22	50	11.225	263	35.73	105	56.808	147	55.49	13
März 1	6.358	170	85.32	124	48.278	147	56.72	83	10.962	239	34.68	138	56.661	135	55.36	39
11	6.188	146	84.08	163	48.131	125	55.89	117	10.723	199	33.30	163	56.526	114	54.97	63
21	6.042	112	82.45	197	48.006	94	54.72	147	10.524	147	31.67	181	56.412	86	54.34	89
31	5.930	74	80.48	229	47.912	58	53.25	176	10.377	86	29.86	191	56.326	51	53.45	114
Apr. 10	5.856	28	78.19	256	47.854	15	51.49	203	10.291	17	27.95	192	56.275	10	52.31	138
20	5.828	20	75.63	279	47.839	29	49.46	226	10.274	55	26.03	184	56.265	33	50.93	161
30	5.848	71	72.84	296	47.868	77	47.20	245	10.329	129	24.19	169	56.298	79	49.32	181
Mai 10	5.919	122	69.88	306	47.945	124	44.75	259	10.458	199	22.50	147	56.377	125	47.51	199
20	6.041	170	66.82	311	48.069	168	42.16	268	10.657	266	21.03	119	56.502	167	45.52	212
30	6.211	215	63.71	308	48.237	209	39.48	271	10.923	325	19.84	88	56.669	207	43.40	222
Juni 9	6.426	255	60.63	298	48.446	245	36.77	268	11.248	374	18.96	52	56.876	241	41.18	225
19	6.681	287	57.65	281	48.691	275	34.09	258	11.622	415	18.44	16	57.117	269	38.93	225
29	6.968	313	54.84	256	48.966	297	31.51	241	12.037	444	18.28	22	57.386	290	36.68	217
Juli 9	7.281	331	52.28	225	49.263	313	29.10	219	12.481	463	18.50	59	57.676	304	34.51	205
19	7.612	340	50.03	187	49.576	320	26.91	190	12.944	471	19.09	94	57.980	310	32.46	186
29	7.952	341	48.16	145	49.896	319	25.01	155	13.415	469	20.03	126	58.290	310	30.60	162
Aug. 8	8.293	334	46.71	98	50.215	313	23.46	117	13.884	459	21.29	156	58.600	304	28.98	135
18	8.627	320	45.73	48	50.528	299	22.29	75	14.343	440	22.85	183	58.904	291	27.63	102
28	8.947	300	45.25	2	50.827	280	21.54	32	14.783	414	24.68	205	59.195	273	26.61	68
Sept. 7	9.247	273	45.27	52	51.107	256	21.22	12	15.197	383	26.73	223	59.468	251	25.93	33
17	9.520	242	45.79	99	51.363	229	21.34	53	15.580	347	28.96	238	59.719	227	25.60	1
27	9.762	208	46.78	142	51.592	198	21.87	92	15.927	307	31.34	248	59.946	200	25.61	35
Okt. 7	9.970	171	48.20	178	51.790	167	22.79	126	16.234	265	33.82	253	60.146	171	25.96	65
17	10.141	132	49.98	206	51.957	134	24.05	153	16.499	218	36.35	255	60.317	141	26.61	90
27	2 10.273	93	52.04	226	3 52.091	99	25.58	174	3 16.717	169	38.90	251	4 60.458	111	27.51	110
Nov. 5	10.366	54	54.30	235	52.190	66	27.32	186	16.886	119	41.41	242	60.569	79	28.61	124
15	10.420	15	56.65	236	52.256	32	29.18	190	17.005	65	43.83	229	60.648	49	29.85	132
25	10.435	23	59.01	227	52.288	1	31.08	185	17.070	10	46.12	210	60.697	17	31.17	133
Dez. 5	10.412	59	61.28	208	52.287	35	32.93	175	17.080	45	48.22	186	60.714	14	32.50	128
15	10.353	93	63.36	182	52.252	65	34.68	156	17.035	99	50.08	156	60.700	44	33.78	121
25	10.260	123	65.18	149	52.187	93	36.24	133	16.936	149	51.64	121	60.656	73	34.99	107
35	10.137		66.67		52.094		37.57		16.787		52.85		60.583		36.06	
Mittl. Ort	7.106		72.16		49.045		45.84		12.667		23.47		57.452		47.55	
sec δ, tg δ	1.188		−0.642		1.073		−0.390		1.642		+1.302		1.013		−0.161	

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Tag	106) ϑ Eridani AR.		Dekl.		105) 47 H. Cephei AR.		Dekl.		107) α Ceti AR.		Dekl.		108) γ Persei AR.		Dekl.	
1929	2h 55m		−40° 34′		2h 56m		+79° 8′		2h 58m		+3° 48′		2h 59m		+53° 13′	
Jan. 0	34.583	169	91.25	141	35.00	80	41.60	193	33.821	81	42.48	63	38.318	176	58.57	110
10	34.414	195	92.66	96	34.20	92	43.53	138	33.740	105	41.85	58	38.142	220	59.67	70
20	34.219	214	93.62	49	33.28	101	44.91	80	33.635	126	41.27	51	37.922	254	60.37	28
30	34.005	226	94.11	0	32.27	106	45.71	19	33.509	140	40.76	41	37.668	275	60.65	14
Febr. 9	33.779	228	94.11	49	31.21	105	45.90	41	33.369	147	40.35	31	37.393	282	60.51	56
19	33.551	222	93.62	96	30.16	102	45.49	99	33.222	144	40.04	20	37.111	275	59.95	95
März 1	33.329	205	92.66	141	29.14	92	44.50	152	33.078	133	39.84	5	36.836	251	59.00	129
11	33.124	180	91.25	182	28.22	80	42.98	197	32.945	114	39.79	9	36.585	215	57.71	156
21	32.944	146	89.43	221	27.42	63	41.01	234	32.831	85	39.88	27	36.370	163	56.15	177
31	32.798	104	87.22	254	26.79	44	38.67	260	32.746	50	40.15	46	36.207	102	54.38	189
Apr. 10	32.694	55	84.68	282	26.35	22	36.07	275	32.696	9	40.61	65	36.105	33	52.49	192
20	32.639	3	81.86	306	26.13	1	33.32	279	32.687	35	41.26	86	36.072	39	50.57	188
30	32.636	51	78.80	322	26.12	22	30.53	273	32.722	81	42.12	107	36.111	114	48.69	174
Mai 10	32.687	106	75.58	331	26.34	43	27.80	258	32.803	127	43.19	126	36.225	188	46.95	155
20	32.793	160	72.27	334	26.77	63	25.22	232	32.930	169	44.45	144	36.413	255	45.40	129
30	32.953	210	68.93	329	27.40	81	22.90	200	33.099	209	45.89	160	36.668	317	44.11	99
Juni 9	33.163	255	65.64	316	28.21	97	20.90	162	33.308	243	47.49	171	36.985	370	43.12	65
19	33.418	293	62.48	296	29.18	109	19.28	119	33.551	270	49.20	179	37.355	412	42.47	29
29	33.711	323	59.52	267	30.27	120	18.09	72	33.821	292	50.99	183	37.767	444	42.18	8
Juli 9	34.034	346	56.85	232	31.47	128	17.37	25	34.113	305	52.82	180	38.211	467	42.26	44
19	34.380	360	54.53	189	32.75	132	17.12	25	34.418	312	54.62	173	38.678	477	42.70	79
29	34.740	364	52.64	143	34.07	133	17.37	73	34.730	311	56.35	163	39.155	479	43.49	113
Aug. 8	35.104	360	51.21	91	35.40	131	18.10	120	35.041	305	57.98	146	39.634	470	44.62	143
18	35.464	347	50.30	37	36.71	128	19.30	163	35.346	293	59.44	126	40.104	453	46.05	170
28	35.811	327	49.93	17	37.99	122	20.93	205	35.639	276	60.70	104	40.557	430	47.75	194
Sept. 7	36.138	299	50.10	71	39.21	113	22.98	243	35.915	256	61.74	80	40.987	401	49.69	213
17	36.437	267	50.81	123	40.34	103	25.41	276	36.171	233	62.54	53	41.388	366	51.82	230
27	36.704	230	52.04	168	41.37	90	28.17	303	36.404	207	63.07	29	41.754	328	54.12	242
Okt. 7	36.934	188	53.72	207	42.27	76	31.20	326	36.611	180	63.36	5	42.082	285	56.54	249
17	37.122	146	55.79	237	43.03	60	34.46	341	36.791	152	63.41	17	42.367	239	59.03	252
27	37.268	100	58.16	258	43.63	43	37.87	350	36.943	123	63.24	34	42.606	190	61.55	250
Nov. 5*)	37.368	55	60.74	268	44.06	25	41.37	350	37.066	93	62.90	49	42.796	138	64.05	245
15	37.423	11	63.42	266	44.31	5	44.87	343	37.159	63	62.41	60	42.934	83	66.50	232
25	37.434	33	66.08	256	44.36	14	48.30	326	37.222	32	61.81	66	43.017	26	68.82	217
Dez. 5	37.401	75	68.64	234	44.22	33	51.56	301	37.254	0	61.15	69	43.043	31	70.99	193
15	37.326	114	70.98	204	43.89	52	54.57	266	37.254	31	60.46	69	43.012	87	72.92	166
25	37.212	148	73.02	167	43.37	69	57.23	223	37.223	61	59.77	67	42.925	142	74.58	132
35	37.064		74.69		42.68		59.46		37.162		59.10		42.783		75.90	
Mittl. Ort	34.020		78.26		34.15		26.41		33.918		43.70		38.474		47.02	
sec δ, tg δ	1.317		−0.857		5.308		+5.213		1.002		+0.067		1.671		+1.338	

*) Bei Stern 108) lies Nov. 6

Tag	109) ρ Persei AR.	Δ	109) ρ Persei Dekl.	Δ	110) μ Horologii AR.	Δ	110) μ Horologii Dekl.	Δ
1929	$3^h\ 0^m$		+38° 33′		$3^h\ 1^m$		−60° 0′	
Jan. 0	36.946	113	67.33	56	57.74	32	61.72	147
10	36.833	147	67.89	28	57.42	36	63.19	92
20	36.686	174	68.17	1	57.06	39	64.11	35
30	36.512	193	68.16	29	56.67	40	64.46	23
Febr. 9	36.319	200	67.87	56	56.27	40	64.23	79
19	36.119	196	67.31	81	55.87	38	63.44	133
März 1	35.923	180	66.50	102	55.49	36	62.11	183
11	35.743	153	65.48	117	55.13	33	60.28	229
21	35.590	115	64.31	126	54.80	27	57.99	270
31	35.475	68	63.05	129	54.53	21	55.29	304
Apr. 10	35.407	15	61.76	125	54.32	15	52.25	332
20	35.392	41	60.51	114	54.17	7	48.93	353
30	35.433	100	59.37	99	54.10	0	45.40	366
Mai 10	35.533	158	58.38	78	54.10	9	41.74	371
20	35.691	211	57.60	53	54.19	16	38.03	369
30	35.902	260	57.07	26	54.35	23	34.34	357
Juni 9	36.162	301	56.81	3	54.58	30	30.77	337
19	36.463	335	56.84	32	54.88	37	27.40	308
29	36.798	360	57.16	60	55.25	41	24.32	273
Juli 9	37.158	377	57.76	87	55.66	45	21.59	229
19	37.535	385	58.63	111	56.11	48	19.30	179
29	37.920	384	59.74	132	56.59	50	17.51	124
Aug. 8	38.304	377	61.06	150	57.09	49	16.27	65
18	38.681	364	62.56	164	57.58	49	15.62	4
28	39.045	343	64.20	176	58.07	46	15.58	57
Sept. 7	39.388	320	65.96	182	58.53	42	16.15	116
17	39.708	294	67.78	186	58.95	37	17.31	171
27	40.002	263	69.64	188	59.32	32	19.02	219
Okt. 7	40.265	230	71.52	185	59.64	25	21.21	261
17	40.495	196	73.37	181	59.89	18	23.82	290
27	40.691	160	75.18	173	60.07	11	26.72	309
Nov. 6	6 40.851	121	76.91	164	6 60.18	3	29.81	316
15	40.972	82	78.55	151	60.21	5	32.97	310
25	41.054	39	80.06	136	60.16	12	36.07	292
Dez. 5	41.093	4	81.42	118	60.04	18	38.99	263
15	41.089	45	82.60	96	59.86	24	41.62	225
25	41.044	87	83.56	72	59.62	29	43.87	179
35	40.957		84.28		59.33		45.66	
Mittl. Ort	37.155		58.98		56.17		45.96	
sec δ, tg δ	1.279		+0.797		2.001		−1.733	

Tag	111) β Persei AR.	Δ	111) β Persei Dekl.	Δ	114) δ Arietis AR.	Δ	114) δ Arietis Dekl.	Δ
1929	$3^h\ 3^m$		+40° 40′		$3^h\ 7^m$		+19° 27′	
Jan. 0	32.289	117	68.93	66	33.750	79	36.97	11
10	32.172	154	69.59	37	33.671	108	36.86	21
20	32.018	181	69.96	6	33.563	131	36.65	29
30	31.837	200	70.02	24	33.432	149	36.36	38
Febr. 9	31.637	209	69.78	54	33.283	157	35.98	44
19	31.428	206	69.24	81	33.126	156	35.54	49
März 1	31.222	189	68.43	104	32.970	146	35.05	50
11	31.033	161	67.39	121	32.824	125	34.55	49
21	30.872	123	66.18	132	32.699	96	34.06	45
31	30.749	76	64.86	137	32.603	58	33.61	35
Apr. 10	30.673	21	63.49	134	32.545	15	33.26	23
20	30.652	38	62.15	126	32.530	33	33.03	6
30	30.690	98	60.89	110	32.563	81	32.97	12
Mai 10	30.788	157	59.79	90	32.644	130	33.09	32
20	30.945	213	58.89	66	32.774	175	33.41	53
30	31.158	262	58.23	39	32.949	218	33.94	74
Juni 9	31.420	306	57.84	9	33.167	254	34.68	93
19	31.726	341	57.75	20	33.421	283	35.61	111
29	32.067	367	57.95	50	33.704	306	36.72	127
Juli 9	32.434	385	58.45	78	34.010	321	37.99	137
19	32.819	394	59.23	104	34.331	329	39.36	145
29	33.213	394	60.27	126	34.660	329	40.81	149
Aug. 8	33.607	387	61.53	146	34.989	324	42.30	148
18	33.994	374	62.99	163	35.313	313	43.78	145
28	34.368	354	64.62	176	35.626	296	45.23	136
Sept. 7	34.722	331	66.38	185	35.922	277	46.59	127
17	35.053	303	68.23	191	36.199	254	47.86	114
27	35.356	273	70.14	194	36.453	229	49.00	100
Okt. 7	35.629	240	72.08	194	36.682	203	50.00	87
17	35.869	204	74.02	190	36.885	174	50.87	72
27	36.073	167	75.92	184	37.059	144	51.59	59
Nov. 6	7 36.240	127	77.76	176	8 37.203	114	52.18	46
15	36.367	86	79.52	164	37.317	80	52.64	34
25	36.453	42	81.16	148	37.397	47	52.98	24
Dez. 5	36.495	2	82.64	130	37.444	13	53.22	13
15	36.493	47	83.94	108	37.457	22	53.35	4
25	36.446	89	85.02	83	37.435	57	53.39	6
35	36.357		85.85		37.378		53.33	
Mittl. Ort	32.477		60.09		33.891		33.56	
sec δ, tg δ	1.319		+0.860		1.061		+0.353	

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Tag	117) 12 Eridani				115) 48 H. Cephei				120) α Persei				121) ο Tauri			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
1929	$3^h\ 9^m$		$-29°\ 15'$		$3^h\ 11^m$		$+77°\ 28'$		$3^h\ 19^m$		$+49°\ 36'$		$3^h\ 20^m$		$+8°\ 46'$	
	s		″		s		″		s		″		s		″	
Jan. 0	3.578	121	67.88	141	15.48	63	50.22	203	14.554	137	46.21	112	59.356	68	48.97	49
10	3.457	147	69.29	105	14.85	75	52.25	152	14.417	180	47.33	77	59.288	98	48.48	46
20	3.310	169	70.34	65	14.10	85	53.77	96	14.237	218	48.10	40	59.190	122	48.02	44
30	3.141	183	70.99	25	13.25	89	54.73	36	14.019	245	48.50	1	59.068	141	47.58	40
Febr. 9	2.958	190	71.24	17	12.36	91	55.09	23	13.774	258	48.51	36	58.927	151	47.18	34
19	2.768	188	71.07	58	11.45	89	54.86	81	13.516	256	48.15	73	58.776	153	46.84	27
März 1	2.580	176	70.49	97	10.56	82	54.05	134	13.260	241	47.42	105	58.623	145	46.57	20
11	2.404	156	69.52	136	9.74	72	52.71	181	13.019	210	46.37	132	58.478	128	46.37	8
21	2.248	127	68.16	171	9.02	59	50.90	219	12.809	168	45.05	153	58.350	102	46.29	4
31	2.121	91	66.45	204	8.43	42	48.71	248	12.641	115	43.52	165	58.248	68	46.33	19
Apr. 10	2.030	48	64.41	233	8.01	25	46.23	266	12.526	52	41.87	171	58.180	28	46.52	35
20	1.982	2	62.08	257	7.76	5	43.57	274	12.474	14	40.16	169	58.152	16	46.87	54
30	1.980	48	59.51	278	7.71	14	40.83	270	12.488	84	38.47	159	58.168	62	47.41	73
Mai 10	2.028	97	56.73	292	7.85	33	38.13	258	12.572	152	36.88	143	58.230	109	48.14	92
20	2.125	146	53.81	299	8.18	51	35.55	236	12.724	218	35.45	121	58.339	153	49.06	110
30	2.271	190	50.82	301	8.69	67	33.19	207	12.942	276	34.24	94	58.492	194	50.16	127
Juni 9	2.461	231	47.81	296	9.36	82	31.12	171	13.218	329	33.30	65	58.686	231	51.43	140
19	2.692	266	44.85	283	10.18	94	29.41	131	13.547	373	32.65	33	58.917	261	52.83	152
29	2.958	293	42.02	263	11.12	103	28.10	87	13.920	406	32.32	0	59.178	284	54.35	158
Juli 9	3.251	313	39.39	235	12.15	111	27.23	41	14.326	430	32.32	33	59.462	301	55.93	161
19	3.564	326	37.04	202	13.26	115	26.82	6	14.756	445	32.65	64	59.763	311	57.54	160
29	3.890	331	35.02	163	14.41	118	26.88	54	15.201	450	33.29	95	60.074	314	59.14	152
Aug. 8	4.221	328	33.39	119	15.59	117	27.42	100	15.651	446	34.24	122	60.388	311	60.66	142
18	4.549	319	32.20	71	16.76	115	28.42	143	16.097	435	35.46	147	60.699	302	62.08	128
28	4.868	302	31.49	22	17.91	111	29.85	185	16.532	416	36.93	168	61.001	288	63.36	109
Sept. 7	5.170	281	31.27	27	19.02	104	31.70	223	16.948	393	38.61	186	61.289	272	64.45	90
17	5.451	254	31.54	74	20.06	95	33.93	256	17.341	365	40.47	201	61.561	251	65.35	68
27	5.705	225	32.28	119	21.01	85	36.49	286	17.706	332	42.48	212	61.812	228	66.03	46
Okt. 7	5.930	192	33.47	157	21.86	73	39.35	309	18.038	296	44.60	220	62.040	203	66.49	26
17	6.122	156	35.04	189	22.59	61	42.44	327	18.334	255	46.80	224	62.243	177	66.75	6
27	6.278	120	36.93	212	23.20	46	45.71	338	18.589	212	49.04	224	62.420	149	66.81	10
Nov. 6	[8] 6.398	83	39.05	226	[9] 23.66	30	49.09	342	[11] 18.801	165	51.28	220	[11] 62.569	119	66.71	24
16	6.481	44	41.31	230	23.96	13	52.51	337	18.966	114	53.48	212	62.688	88	66.47	35
26	6.525	7	43.61	226	24.09	4	55.88	324	19.080	61	55.60	199	62.776	55	66.12	42
Dez. 6	6.532	31	45.87	212	24.05	21	59.12	302	19.141	7	57.59	182	62.831	22	65.70	47
16	6.501	67	47.99	190	23.84	38	62.14	271	19.148	48	59.41	158	62.853	13	65.23	49
26	6.434	100	49.89	161	23.46	53	64.85	231	19.100	101	60.99	130	62.840	46	64.74	50
36	6.334		51.50		22.93		67.16		18.999		62.29		62.794		64.24	
Mittl. Ort	3.210		58.20		14.54		35.49		14.599		35.60		59.382		48.24	
sec δ, tg δ	1.146		−0.560		4.61[illegible]		+4.502		1.543		+1.175		1.012		+0.154	

Tag	122) 2 H. Camelop. AR.	Diff.	122) Dekl.	Diff.	125) f Tauri AR.	Diff.	125) Dekl.	Diff.	127) ε Eridani[1] AR.	Diff.	127) Dekl.	Diff.	131) δ Persei AR.	Diff.	131) Dekl.	Diff.
1929	3h 23m		+59° 41′		3h 26m		+12° 41′		3h 29m		−9° 41′		3h 37m		+47° 33′	
	s		″		s		″		s		″		s		″	
Jan. 0	18.329	196	53.05	153	56.975	65	41.78	34	35.217	78	55.76	111	51.711	109	53.24	115
10	18.133	255	54.58	113	56.910	96	41.44	35	35.139	107	56.87	90	51.602	156	54.39	86
20	17.878	301	55.71	69	56.814	121	41.09	36	35.032	132	57.77	68	51.446	196	55.25	52
30	17.577	334	56.40	22	56.693	142	40.73	36	34.900	149	58.45	44	51.250	226	55.77	17
Febr. 9	17.243	350	56.62	26	56.551	154	40.37	35	34.751	160	58.89	20	51.024	245	55.94	19
19	16.893	348	56.36	70	56.397	156	40.02	32	34.591	162	59.09	6	50.779	248	55.75	54
März 1	16.545	328	55.66	112	56.241	149	39.70	28	34.429	155	59.03	32	50.531	239	55.21	85
11	16.217	290	54.54	147	56.092	133	39.42	21	34.274	140	58.71	58	50.292	214	54.36	112
21	15.927	235	53.07	176	55.959	107	39.21	12	34.134	114	58.13	84	50.078	177	53.24	133
31	15.692	167	51.31	198	55.852	73	39.09	0	34.020	82	57.29	109	49.901	129	51.91	148
Apr. 10	15.525	90	49.33	209	55.779	32	39.09	15	33.938	44	56.20	134	49.772	71	50.43	156
20	15.435	5	47.24	212	55.747	12	39.24	30	33.894	1	54.86	157	49.701	8	48.87	156
30	15.430	82	45.12	206	55.759	58	39.54	49	33.893	45	53.29	177	49.693	58	47.31	150
Mai 10	15.512	168	43.06	193	55.817	106	40.03	68	33.938	90	51.52	195	49.751	125	45.81	137
20	15.680	251	41.13	172	55.923	151	40.71	85	34.028	135	49.57	210	49.876	189	44.44	118
30	15.931	326	39.41	145	56.074	194	41.56	104	34.163	176	47.47	219	50.065	247	43.26	95
Juni 9	16.257	392	37.96	115	56.268	231	42.60	119	34.339	213	45.28	225	50.312	301	42.31	69
19	16.649	449	36.81	79	56.499	261	43.79	132	34.552	245	43.03	224	50.613	345	41.62	40
29	17.098	492	36.02	42	56.760	286	45.11	142	34.797	270	40.79	217	50.958	381	41.22	11
Juli 9	17.590	526	35.60	5	57.046	303	46.53	147	35.067	289	38.62	206	51.339	407	41.11	20
19	18.116	546	35.55	33	57.349	314	48.00	149	35.356	300	36.56	188	51.746	426	41.31	48
29	18.662	555	35.88	70	57.663	318	49.49	146	35.656	305	34.68	165	52.172	434	41.79	76
Aug. 8	19.217	553	36.58	106	57.981	315	50.95	139	35.961	304	33.03	136	52.606	434	42.55	102
18	19.770	543	37.64	138	58.296	307	52.34	129	36.265	297	31.67	105	53.040	427	43.57	125
28	20.313	522	39.02	169	58.603	296	53.63	114	36.562	284	30.62	69	53.467	414	44.82	145
Sept. 7	20.835	494	40.71	195	58.899	278	54.77	99	36.846	267	29.93	33	53.881	395	46.27	163
17	21.329	460	42.66	218	59.177	258	55.76	80	37.113	247	29.60	4	54.276	371	47.90	176
27	21.789	418	44.84	238	59.435	237	56.56	62	37.360	223	29.64	38	54.647	342	49.66	188
Okt. 7	22.207	372	47.22	252	59.672	212	57.18	44	37.583	198	30.02	70	54.989	310	51.54	197
17	22.579	320	49.74	263	59.884	186	57.62	27	37.781	170	30.72	99	55.299	273	53.51	201
27	22.899	262	52.37	269	60.070	158	57.89	11	37.951	141	31.71	120	55.572	234	55.52	204
Nov. 6	[12] 23.161	201	55.06	268	[13] 60.228	128	58.00	1	[13] 38.092	110	32.91	136	[15] 55.806	189	57.56	203
15	23.362	133	57.74	263	60.356	97	57.99	12	38.202	78	34.27	146	55.995	141	59.59	197
25	23.495	64	60.37	252	60.453	64	57.87	19	38.280	45	35.73	148	56.136	91	61.56	188
Dez. 5	23.559	9	62.89	233	60.517	29	57.68	26	38.325	10	37.21	145	56.227	36	63.44	174
15	23.550	82	65.22	207	60.546	7	57.42	30	38.335	23	38.66	136	56.263	18	65.18	155
25	23.468	150	67.29	176	60.539	42	57.12	33	38.312	56	40.02	121	56.245	72	66.73	132
35	23.318		69.05		60.497		56.79		38.256		41.23		56.173		68.05	
Mittl. Ort	18.202		40.74		56.995		39.89		35.063		51.75		51.651		43.29	
sec δ, tg δ	1.982		+1.711		1.025		+0.225		1.014		−0.171		1.482		+1.094	

[1]) Die jährliche Parallaxe (0.″32) ist bereits berücksichtigt.

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Tag	134) ν Persei AR.		134) ν Persei Dekl.		138) 5 H. Camelop. AR.		138) 5 H. Camelop. Dekl.		139) η Tauri AR.		139) η Tauri Dekl.		141) β Reticuli AR.		141) β Reticuli Dekl.	
1929	$3^h 40^m$		+42° 21′		$3^h 42^m$		+71° 6′		$3^h 43^m$		+23° 53′		$3^h 43^m$		−65° 1′	
	s		″		s		″		s		″		s		″	
Jan. 0	21.827	90	29.37	95	50.72	32	70.07	212	15.616	58	17.48	14	20.67	37	61.82	196
10	21.737	133	30.32	68	50.40	41	72.19	168	15.558	95	17.62	4	20.30	42	63.78	143
20	21.604	172	31.00	41	49.99	50	73.87	120	15.463	126	17.66	6	19.88	47	65.21	88
30	21.432	200	31.41	10	49.49	55	75.07	66	15.337	150	17.60	19	19.41	50	66.09	31
Febr. 9	21.232	217	31.51	21	48.94	58	75.73	12	15.187	166	17.41	29	18.91	51	66.40	28
19	21.015	223	31.30	50	48.36	59	75.85	43	15.021	172	17.12	38	18.40	51	66.12	84
März 1	20.792	215	30.80	76	47.77	56	75.42	94	14.849	166	16.74	46	17.89	50	65.28	138
11	20.577	193	30.04	99	47.21	51	74.48	141	14.683	151	16.28	51	17.39	46	63.90	188
21	20.384	160	29.05	116	46.70	43	73.07	181	14.532	126	15.77	52	16.93	41	62.02	233
31	20.224	117	27.89	127	46.27	34	71.26	213	14.406	91	15.25	49	16.52	35	59.69	274
Apr. 10	20.107	64	26.62	132	45.93	22	69.13	234	14.315	49	14.76	43	16.17	28	56.95	307
20	20.043	6	25.30	131	45.71	10	66.79	248	14.266	2	14.33	33	15.89	20	53.88	335
30	20.037	55	23.99	123	45.61	4	64.31	250	14.264	48	14.00	20	15.69	11	50.53	355
Mai 10	20.092	116	22.76	109	45.65	16	61.81	244	14.312	98	13.80	3	15.58	2	46.98	367
20	20.208	174	21.67	91	45.81	30	59.37	229	14.410	147	13.77	14	15.56	7	43.31	371
30	20.382	230	20.76	69	46.11	41	57.08	207	14.557	192	13.91	34	15.63	16	39.60	367
Juni 9	20.612	278	20.07	44	46.52	52	55.01	177	14.749	233	14.25	52	15.79	25	35.93	354
19	20.890	319	19.63	17	47.04	61	53.24	144	14.982	267	14.77	71	16.04	32	32.39	331
29	21.209	353	19.46	9	47.65	69	51.80	106	15.249	295	15.48	87	16.36	40	29.08	301
Juli 9	21.562	378	19.55	35	48.34	74	50.74	66	15.544	315	16.35	100	16.76	46	26.07	263
19	21.940	394	19.90	61	49.08	79	50.08	23	15.859	328	17.35	111	17.22	51	23.44	216
29	22.334	402	20.51	84	49.87	82	49.85	19	16.187	336	18.46	119	17.73	54	21.28	163
Aug. 8	22.736	402	21.35	106	50.69	83	50.04	61	16.523	335	19.65	123	18.27	56	19.65	106
18	23.138	396	22.41	124	51.52	82	50.65	102	16.858	330	20.88	123	18.83	57	18.59	44
28	23.534	384	23.65	139	52.34	81	51.67	141	17.188	319	22.11	121	19.40	55	18.15	18
Sept. 7	23.918	366	25.04	152	53.15	77	53.08	177	17.507	305	23.32	116	19.95	52	18.33	81
17	24.284	344	26.56	162	53.92	72	54.85	210	17.812	286	24.48	109	20.47	48	19.14	141
27	24.628	319	28.18	170	54.64	67	56.95	239	18.098	266	25.57	99	20.95	43	20.55	196
Okt. 7	24.947	289	29.88	174	55.31	60	59.34	264	18.364	242	26.56	91	21.38	36	22.51	244
17	25.236	257	31.62	176	55.91	52	61.98	285	18.606	216	27.47	81	21.74	28	24.95	283
27	25.493	221	33.38	175	56.43	43	64.83	299	18.822	187	28.28	72	22.02	20	27.78	311
Nov. 6	25.714	181	35.13	173	56.86	34	67.82	307	19.009	157	29.00	62	22.22	11	30.89	326
16	25.895	138	36.86	167	[17] 57.20	22	70.89	309	[17] 19.166	122	29.62	54	[17] 22.33	2	34.15	329
25	[10] 26.033	92	38.53	158	57.42	11	73.98	303	19.288	86	30.16	46	22.35	8	37.44	320
Dez. 5	26.125	43	40.11	146	57.53	1	77.01	288	19.374	48	30.62	37	22.27	17	40.64	299
15	26.168	7	41.57	129	57.52	13	79.89	266	19.422	8	30.99	29	22.10	25	43.63	267
25	26.161	56	42.86	109	57.39	24	82.55	235	19.430	31	31.28	21	21.85	33	46.30	226
35	26.105		43.95		57.15		84.90		19.399		31.49		21.52		48.56	
Mittl. Ort	21.792		20.46		49.90		56.78		15.600		12.62		18.17		48.98	
sec δ, tg δ	1.353		+0.912		3.090		+2.924		1.094		+0.443		2.369		−2.147	

Tag	140) τ⁶ Eridani AR.		Dekl.		143) *g* Eridani AR.		Dekl.		146) γ Hydri AR.		Dekl.		144) ζ Persei AR.		Dekl.	
1929	3ʰ 43ᵐ		−23° 27′		3ʰ 46ᵐ		−36° 24′		3ʰ 48ᵐ		−74° 26′		3ʰ 49ᵐ		+31° 40′	
	s		″		s		″		s		″		s		″	
Jan. 0	47.949	89	36.72	158	48.547	123	60.88	186	23.75	65	98.37	192	39.897	61	33.56	52
10	47.860	121	38.30	128	48.424	158	62.74	147	23.10	73	100.29	140	39.836	101	34.08	35
20	47.739	148	39.58	94	48.266	188	64.21	103	22.37	80	101.69	84	39.735	136	34.43	17
30	47.591	169	40.52	58	48.078	211	65.24	58	21.57	85	102.53	25	39.599	163	34.60	2
Febr. 9	47.422	183	41.10	21	47.867	225	65.82	11	20.72	86	102.78	33	39.436	181	34.58	21
19	47.239	187	41.31	17	47.642	228	65.93	35	19.86	86	102.45	89	39.255	188	34.37	39
März 1	47.052	182	41.14	54	47.414	223	65.58	81	19.00	83	101.56	143	39.067	185	33.98	54
11	46.870	168	40.60	91	47.191	207	64.77	125	18.17	77	100.13	193	38.882	167	33.44	68
21	46.702	145	39.69	125	46.984	181	63.52	166	17.40	71	98.20	237	38.715	141	32.76	77
31	46.557	113	38.44	157	46.803	147	61.86	203	16.69	61	95.83	277	38.574	104	31.99	80
Apr. 10	46.444	75	36.87	188	46.656	106	59.83	237	16.08	51	93.06	310	38.470	60	31.19	80
20	46.369	31	34.99	215	46.550	58	57.46	265	15.57	39	89.96	337	38.410	10	30.39	75
30	46.338	15	32.84	237	46.492	8	54.81	289	15.18	26	86.59	355	38.400	43	29.64	65
Mai 10	46.353	63	30.47	255	46.484	45	51.92	307	14.92	11	83.04	367	38.443	97	28.99	50
20	46.416	110	27.92	269	46.529	98	48.85	318	14.81	2	79.37	370	38.540	149	28.49	33
30	46.526	155	25.23	275	46.627	148	45.67	321	14.83	16	75.67	365	38.689	198	28.16	14
Juni 9	46.681	196	22.48	276	46.775	195	42.46	318	14.99	30	72.02	350	38.887	241	28.02	7
19	46.877	232	19.72	270	46.970	237	39.28	305	15.29	42	68.52	328	39.128	279	28.09	28
29	47.109	262	17.02	257	47.207	272	36.23	286	15.71	54	65.24	297	39.407	309	28.37	48
Juli 9	47.371	287	14.45	237	47.479	302	33.37	258	16.25	64	62.27	257	39.716	332	28.85	67
19	47.658	302	12.08	209	47.781	322	30.79	224	16.89	73	59.70	210	40.048	347	29.52	83
29	47.960	312	9.99	176	48.103	336	28.55	182	17.62	79	57.60	158	40.395	356	30.35	98
Aug. 8	48.272	315	8.23	138	48.439	342	26.73	136	18.41	82	56.02	100	40.751	357	31.33	110
18	48.587	312	6.85	95	48.781	340	25.37	84	19.23	83	55.02	38	41.108	352	32.43	117
28	48.899	302	5.90	49	49.121	330	24.53	29	20.06	83	54.64	25	41.460	343	33.60	123
Sept. 7	49.201	287	5.41	2	49.451	315	24.24	25	20.89	79	54.89	86	41.803	329	34.83	126
17	49.488	267	5.39	45	49.766	293	24.49	79	21.68	73	55.75	147	42.132	310	36.09	126
27	49.755	245	5.84	88	50.059	267	25.28	129	22.41	64	57.22	202	42.442	289	37.35	125
Okt. 7	50.000	218	6.72	129	50.326	234	26.57	174	23.05	53	59.24	249	42.731	265	38.60	121
17	50.218	188	8.01	164	50.560	200	28.31	213	23.58	41	61.73	286	42.996	237	39.81	118
27	50.406	156	9.65	190	50.760	161	30.44	243	23.99	26	64.59	314	43.233	207	40.99	113
Nov. 6	50.562	121	11.55	210	50.921	119	32.87	262	24.25	12	67.73	329	43.440	175	42.12	107
16	17 50.683	86	13.65	219	18 51.040	77	35.49	272	18 24.37	3	71.02	331	18 43.615	137	43.19	100
25	50.769	49	15.84	221	51.117	33	38.21	270	24.34	18	74.33	321	43.752	98	44.19	93
Dez. 5	50.818	10	18.05	213	51.150	12	40.91	258	24.16	33	77.54	299	43.850	56	45.12	84
15	50.828	27	20.18	198	51.138	56	43.49	237	23.83	46	80.53	265	43.906	13	45.96	73
25	50.801	66	22.16	175	51.082	97	45.86	208	23.37	58	83.18	224	43.919	32	46.69	59
35	50.735		23.91		50.985		47.94		22.79		85.42		43.887		47.28	
Mittl. Ort	47.521		30.34		47.811		52.13		19.14		85.42		39.852		26.96	
sec δ, tg δ	1.090		−0.434		1.243		−0.738		3.732		−3.595		1.175		+0.617	

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145) 9 H. Camelop.

Tag	AR.	Diff.	Dekl.	Diff.
1929	3h 51m		+60° 54'	
	s		"	
Jan. 0	4.48	17	21.50	180
10	4.31	23	23.30	143
20	4.08	29	24.73	102
30	3.79	34	25.75	56
Febr. 9	3.45	36	26.31	9
19	3.09	37	26.40	37
März 1	2.72	36	26.03	81
11	2.36	33	25.22	121
21	2.03	28	24.01	155
31	1.75	22	22.46	182
Apr. 10	1.53	14	20.64	200
20	1.39	5	18.64	209
30	1.34	3	16.55	211
Mai 10	1.37	12	14.44	204
20	1.49	21	12.40	189
30	1.70	29	10.51	168
Juni 9	1.99	37	8.83	143
19	2.36	43	7.40	111
29	2.79	48	6.29	78
Juli 9	3.27	52	5.51	42
19	3.79	55	5.09	6
29	4.34	57	5.03	29
Aug. 8	4.91	58	5.32	66
18	5.49	57	5.98	99
28	6.06	56	6.97	131
Sept. 7	6.62	55	8.28	160
17	7.17	51	9.88	186
27	7.68	47	11.74	210
Okt. 7	8.15	44	13.84	228
17	8.59	38	16.12	245
27	8.97	33	18.57	256
Nov. 6	9.30	26	21.13	261
16	19 9.56	20	23.74	262
25	9.76	12	26.36	257
Dez. 5	9.88	4	28.93	245
15	9.92	3	31.38	225
25	9.89	12	33.63	199
35	9.77		35.62	
Mittl. Ort	4.08		9.68	
sec δ, tg δ	2.056		+1.797	

147) ε Persei

Tag	AR.	Diff.	Dekl.	Diff.
1929	3h 53m		+39° 48'	
	s		"	
Jan. 0	5.077	71	30.76	90
10	5.006	116	31.66	67
20	4.890	155	32.33	43
30	4.735	186	32.76	16
Febr. 9	4.549	206	32.92	12
19	4.343	213	32.80	38
März 1	4.130	210	32.42	63
11	3.920	192	31.79	83
21	3.728	162	30.96	101
31	3.566	122	29.95	111
Apr. 10	3.444	73	28.84	117
20	3.371	19	27.67	115
30	3.352	40	26.52	109
Mai 10	3.392	99	25.43	98
20	3.491	156	24.45	81
30	3.647	210	23.64	61
Juni 9	3.857	258	23.03	40
19	4.115	299	22.63	15
29	4.414	334	22.48	9
Juli 9	4.748	359	22.57	33
19	5.107	377	22.90	55
29	5.484	387	23.45	77
Aug. 8	5.871	390	24.22	95
18	6.261	386	25.17	111
28	6.647	376	26.28	124
Sept. 7	7.023	362	27.52	135
17	7.385	343	28.87	143
27	7.728	319	30.30	150
Okt. 7	8.047	294	31.80	153
17	8.341	264	33.33	155
27	8.605	229	34.88	155
Nov. 6	8.834	193	36.43	153
16	19 9.027	152	37.96	148
25	9.179	108	39.44	141
Dez. 5	9.287	61	40.85	132
15	9.348	11	42.17	118
25	9.359	38	43.35	101
35	9.321		44.36	
Mittl. Ort	4.987		22.52	
sec δ, tg δ	1.302		+0.833	

148) ξ Persei

Tag	AR.	Diff.	Dekl.	Diff.
1929	3h 54m		+35° 35'	
	s		"	
Jan. 0	21.258	62	25.01	71
10	21.196	105	25.72	52
20	21.091	142	26.24	31
30	20.949	172	26.55	9
Febr. 9	20.777	191	26.64	14
19	20.586	200	26.50	37
März 1	20.386	196	26.13	56
11	20.190	180	25.57	74
21	20.010	152	24.83	87
31	19.858	114	23.96	94
Apr. 10	19.744	69	23.02	97
20	19.675	17	22.05	95
30	19.658	39	21.10	86
Mai 10	19.697	94	20.24	74
20	19.791	149	19.50	57
30	19.940	200	18.93	38
Juni 9	20.140	246	18.55	17
19	20.386	285	18.38	4
29	20.671	318	18.42	27
Juli 9	20.989	342	18.69	48
19	21.331	359	19.17	68
29	21.690	369	19.85	85
Aug. 8	22.059	371	20.70	99
18	22.430	368	21.69	112
28	22.798	358	22.81	121
Sept. 7	23.156	345	24.02	128
17	23.501	326	25.30	132
27	23.827	305	26.62	134
Okt. 7	24.132	280	27.96	135
17	24.412	253	29.31	134
27	24.665	221	30.65	132
Nov. 6	24.886	186	31.97	128
16	20 25.072	148	33.25	123
25	25.220	106	34.48	116
Dez. 5	25.326	62	35.64	107
15	25.388	16	36.71	95
25	25.404	31	37.66	81
35	25.373		38.47	
Mittl. Ort	21.181		17.62	
sec δ, tg δ	1.230		+0.716	

149) γ Eridani

Tag	AR.	Diff.	Dekl.	Diff.
1929	3h 54m		−13° 42'	
	s		"	
Jan. 0	43.262	64	37.96	136
10	43.198	98	39.32	113
20	43.100	126	40.45	87
30	42.974	149	41.32	61
Febr. 9	42.825	165	41.93	31
19	42.660	172	42.24	2
März 1	42.488	169	42.26	28
11	42.319	157	41.98	58
21	42.162	136	41.40	86
31	42.026	107	40.54	114
Apr. 10	41.919	71	39.40	142
20	41.848	29	37.98	166
30	41.819	15	36.32	188
Mai 10	41.834	61	34.44	207
20	41.895	106	32.37	223
30	42.001	150	30.14	233
Juni 9	42.151	189	27.81	238
19	42.340	223	25.43	237
29	42.563	253	23.06	231
Juli 9	42.816	276	20.75	217
19	43.092	292	18.58	199
29	43.384	301	16.59	172
Aug. 8	43.685	305	14.87	143
18	43.990	303	13.44	107
28	44.293	294	12.37	69
Sept. 7	44.587	283	11.68	30
17	44.870	266	11.38	11
27	45.136	246	11.49	50
Okt. 7	45.382	223	11.99	87
17	45.605	197	12.86	117
27	45.802	169	14.03	143
Nov. 6	45.971	138	15.46	162
16	20 46.109	105	17.08	173
25	46.214	70	18.81	178
Dez. 5	46.284	34	20.59	174
15	46.318	3	22.33	164
25	46.315	40	23.97	148
35	46.275		25.45	
Mittl. Ort	42.940		34.26	
sec δ, tg δ	1.029		−0.244	

Tag	150) λ Tauri AR.		Dekl.		151) ν Tauri AR.		Dekl.		152) c Persei AR.		Dekl.		154) o¹ Eridani AR.		Dekl.	
1929	3h 56m		+12° 17′		3h 59m		+5° 47′		4h 3m		+47° 31′		4h 8m		−7° 0′	
Jan. 0	44.732	45	29.66	34	22.791	44	37.14	63	30.201	79	37.86	130	24.205	48	79.54	117
10	44.687	80	29.32	35	22.747	79	36.51	57	30.122	133	39.16	104	24.157	82	80.71	100
20	44.607	111	28.97	33	22.668	110	35.94	49	29.989	178	40.20	73	24.075	113	81.71	81
30	44.496	137	28.64	31	22.558	135	35.45	40	29.811	216	40.93	41	23.962	139	82.52	59
Febr. 9	44.359	154	28.33	29	22.423	151	35.05	31	29.595	240	41.34	7	23.823	157	83.11	36
19	44.205	161	28.04	25	22.272	160	34.74	21	29.355	251	41.41	28	23.666	166	83.47	13
März 1	44.044	160	27.79	21	22.112	159	34.53	10	29.104	248	41.13	61	23.500	167	83.60	11
11	43.884	148	27.58	15	21.953	148	34.43	3	28.856	230	40.52	89	23.333	156	83.49	35
21	43.736	126	27.43	7	21.805	126	34.46	16	28.626	198	39.63	114	23.177	138	83.14	59
31	43.610	96	27.36	3	21.679	98	34.62	31	28.428	155	38.49	133	23.039	110	82.55	83
Apr. 10	43.514	58	27.39	16	21.581	61	34.93	48	28.273	101	37.16	144	22.929	75	81.72	107
20	43.456	15	27.55	31	21.520	20	35.41	65	28.172	40	35.72	150	22.854	36	80.65	129
30	43.441	31	27.86	46	21.500	26	36.06	83	28.132	25	34.22	148	22.818	9	79.36	150
Mai 10	43.472	77	28.32	63	21.526	71	36.89	100	28.157	91	32.74	141	22.827	53	77.86	169
20	43.549	124	28.95	79	21.597	116	37.89	117	28.248	156	31.33	127	22.880	98	76.17	186
30	43.673	167	29.74	95	21.713	158	39.06	131	28.404	217	30.06	108	22.978	141	74.31	197
Juni 9	43.840	206	30.69	110	21.871	198	40.37	143	28.621	272	28.98	86	23.119	181	72.34	206
19	44.046	240	31.79	121	22.069	231	41.80	152	28.893	321	28.12	62	23.300	215	70.28	209
29	44.286	267	33.00	130	22.300	259	43.32	157	29.214	360	27.50	34	23.515	244	68.19	206
Juli 9	44.553	289	34.30	135	22.559	280	44.89	157	29.574	392	27.16	8	23.759	268	66.13	198
19	44.842	304	35.65	136	22.839	296	46.46	153	29.966	415	27.08	20	24.027	285	64.15	185
29	45.146	312	37.01	133	23.135	304	47.99	144	30.381	429	27.28	46	24.312	297	62.30	165
Aug. 8	45.458	314	38.34	126	23.439	307	49.43	131	30.810	435	27.74	71	24.609	301	60.65	141
18	45.772	311	39.60	115	23.746	305	50.74	114	31.245	433	28.45	94	24.910	300	59.24	112
28	46.083	303	40.75	101	24.051	297	51.88	94	31.678	426	29.39	115	25.210	294	58.12	79
Sept. 7	46.386	291	41.76	85	24.348	286	52.82	71	32.104	412	30.54	132	25.504	285	57.33	45
17	46.677	276	42.61	67	24.634	271	53.53	47	32.516	392	31.86	149	25.789	271	56.88	10
27	46.953	257	43.28	49	24.905	253	54.00	23	32.908	369	33.35	162	26.060	253	56.78	25
Okt. 7	47.210	236	43.77	30	25.158	232	54.23	0	33.277	340	34.97	173	26.313	232	57.03	57
17	47.446	213	44.07	14	25.390	209	54.23	20	33.617	307	36.70	181	26.545	210	57.60	86
27	47.659	187	44.21	1	25.599	183	54.03	40	33.924	270	38.51	187	26.755	183	58.46	111
Nov. 6	47.846	158	44.20	13	25.782	155	53.63	53	34.194	228	40.38	190	26.938	155	59.57	128
16	48.004	127	44.07	23	25.937	125	53.10	63	34.422	181	42.28	189	27.093	124	60.85	140
25	[20] 48.131	93	43.84	29	[21] 26.062	91	52.47	69	[22] 34.603	130	44.17	184	[23] 27.217	89	62.25	146
Dez. 5	48.224	57	43.55	33	26.153	55	51.78	72	34.733	74	46.01	175	27.306	53	63.71	145
15	48.281	19	43.22	35	26.208	18	51.06	71	34.807	17	47.76	162	27.359	16	65.16	139
25	48.300	19	42.87	36	26.226	19	50.35	67	34.824	41	49.38	144	27.375	22	66.55	127
35	48.281		42.51		26.207		49.68		34.783		50.82		27.353		67.82	
Mittl. Ort	44.625		27.37		22.638		36.28		29.987		28.39		23.911		77.86	
sec δ, tg δ	1.023		+0.218		1.005		+0.101		1.481		+1.092		1.008		−0.123	

Scheinbare Sternörter 1929

Tag	155) α Horologii AR.		155) α Horologii Dekl.		156) α Reticuli AR.		156) α Reticuli Dekl.		160) υ⁴ Eridani AR.		160) υ⁴ Eridani Dekl.		162) δ Tauri AR.		162) δ Tauri Dekl.	
1929	4h 11m		−42° 27'		4h 13m		−62° 38'		4h 15m		−33° 57'		4h 18m		+17° 22'	
	s		"		s		"		s		"		s		"	
Jan. 0	39.846	129	75.60	219	32.74	29	74.27	233	13.129	94	81.58	205	50.426	28	41.96	11
10	39.717	172	77.79	178	32.45	36	76.60	185	13.035	134	83.63	170	50.398	68	41.85	13
20	39.545	208	79.57	133	32.09	41	78.45	133	12.901	169	85.33	129	50.330	103	41.72	15
30	39.337	237	80.90	84	31.68	45	79.78	78	12.732	196	86.62	87	50.227	133	41.57	17
Febr. 9	39.100	257	81.74	35	31.23	47	80.56	21	12.536	215	87.49	41	50.094	154	41.40	20
19	38.843	265	82.09	15	30.76	48	80.77	36	12.321	226	87.90	4	49.940	167	41.20	21
März 1	38.578	263	81.94	65	30.28	47	80.41	91	12.095	225	87.86	49	49.773	169	40.99	23
11	38.315	251	81.29	113	29.81	45	79.50	143	11.870	215	87.37	93	49.604	160	40.76	22
21	38.064	227	80.16	158	29.36	42	78.07	192	11.655	194	86.44	134	49.444	140	40.54	20
31	37.837	194	78.58	198	28.94	37	76.15	236	11.461	165	85.10	173	49.304	113	40.34	15
Apr. 10	37.643	153	76.60	236	28.57	31	73.79	275	11.296	127	83.37	209	49.191	76	40.19	8
20	37.490	105	74.24	268	28.26	23	71.04	307	11.169	83	81.28	239	49.115	33	40.11	3
30	37.385	52	71.56	295	28.03	16	67.97	334	11.086	35	78.89	267	49.082	12	40.14	14
Mai 10	37.333	3	68.61	316	27.87	8	64.63	352	11.051	16	76.22	287	49.094	60	40.28	29
20	37.336	60	65.45	329	27.79	1	61.11	363	11.067	66	73.35	303	49.154	107	40.57	43
30	37.396	115	62.16	335	27.80	9	57.48	365	11.133	117	70.32	310	49.261	152	41.00	58
Juni 9	37.511	167	58.81	333	27.89	18	53.83	360	11.250	163	67.22	311	49.413	193	41.58	72
19	37.678	215	55.48	322	28.07	25	50.23	344	11.413	207	64.11	305	49.606	230	42.30	86
29	37.893	258	52.26	303	28.32	33	46.79	319	11.620	244	61.06	289	49.836	260	43.16	96
Juli 9	38.151	293	49.23	277	28.65	39	43.60	287	11.864	275	58.17	266	50.096	284	44.12	104
19	38.444	323	46.46	242	29.04	43	40.73	245	12.139	300	55.51	236	50.380	303	45.16	108
29	38.767	343	44.04	199	29.47	48	38.28	197	12.439	318	53.15	199	50.683	314	46.24	110
Aug. 8	39.110	355	42.05	151	29.95	51	36.31	142	12.757	328	51.16	154	50.997	319	47.34	108
18	39.465	360	40.54	97	30.46	52	34.89	82	13.085	331	49.62	106	51.316	320	48.42	102
28	39.825	356	39.57	41	30.98	52	34.07	20	13.416	328	48.56	53	51.636	315	49.44	93
Sept. 7	40.181	345	39.16	18	31.50	50	33.87	43	13.744	318	48.03	1	51.951	306	50.37	82
17	40.526	326	39.34	76	32.00	48	34.30	107	14.062	303	48.04	55	52.257	294	51.19	69
27	40.852	302	40.10	131	32.48	43	35.37	166	14.365	282	48.59	107	52.551	278	51.88	56
Okt. 7	41.154	271	41.41	181	32.91	38	37.03	218	14.647	255	49.66	155	52.829	260	52.44	42
17	41.425	234	43.22	225	33.29	32	39.21	263	14.902	225	51.21	196	53.089	238	52.86	30
27	41.659	194	45.47	259	33.61	25	41.84	299	15.127	191	53.17	231	53.327	213	53.16	18
Nov. 6	41.853	149	48.06	283	33.86	17	44.83	323	15.318	153	55.48	254	53.540	186	53.34	9
16	42.002	101	50.89	297	34.03	8	48.06	334	15.471	111	58.02	269	53.726	155	53.43	2
25*)	(24) 42.103	51	53.86	299	(24) 34.11	1	51.40	332	(25) 15.582	69	60.71	273	(26) 53.881	119	53.45	3
Dez. 5	42.154	0	56.85	289	34.10	9	54.72	320	15.651	23	63.44	266	54.000	82	53.42	7
15	42.154	50	59.74	270	34.01	17	57.92	294	15.674	22	66.10	250	54.082	42	53.35	9
25	42.104	100	62.44	241	33.84	25	60.86	260	15.652	66	68.60	225	54.124	0	53.26	11
35	42.004		64.85		33.59		63.46		15.586		70.85		54.124		53.15	
Mittl. Ort	38.792		67.74		30.30		64.39		12.338		75.24		50.252		38.30	
sec δ, tg δ	1.356		−0.915		2.177		−1.933		1.206		−0.674		1.048		+0.313	

*) Bei Stern 162) lies Nov. 26

Tag	164) ε Tauri AR.		164) ε Tauri Dekl.		168) α Tauri AR.		168) α Tauri Dekl.	
1929	4h 24m		+19° 1′		4h 31m		+16° 22′	
Jan. 0	28.286	24	31.69	3	50.873	17	8.09	17
10	28.262	64	31.66	6	50.856	59	7.92	16
20	28.198	101	31.60	8	50.797	95	7.76	17
30	28.097	132	31.52	12	50.702	128	7.59	17
Febr. 9	27.965	155	31.40	16	50.574	151	7.42	18
19	27.810	169	31.24	19	50.423	166	7.24	18
März 1	27.641	171	31.05	23	50.257	170	7.06	18
11	27.470	164	30.82	24	50.087	164	6.88	18
21	27.306	144	30.58	22	49.923	146	6.70	14
31	27.162	117	30.36	21	49.777	120	6.56	9
Apr. 10	27.045	81	30.15	15	49.657	85	6.47	3
20	26.964	39	30.00	5	49.572	45	6.44	7
30	26.925	8	29.95	5	49.527	0	6.51	19
Mai 10	26.933	55	30.00	17	49.527	47	6.70	32
20	26.988	103	30.17	32	49.574	94	7.02	45
30	27.091	149	30.49	47	49.668	139	7.47	60
Juni 9	27.240	190	30.96	60	49.807	180	8.07	72
19	27.430	227	31.56	74	49.987	218	8.79	84
29	27.657	258	32.30	85	50.205	249	9.63	94
Juli 9	27.915	285	33.15	94	50.454	274	10.57	101
19	28.200	302	34.09	100	50.728	294	11.58	105
29	28.502	314	35.09	102	51.022	308	12.63	104
Aug. 8	28.816	322	36.11	101	51.330	315	13.67	102
18	29.138	322	37.12	97	51.645	317	14.69	94
28	29.460	319	38.09	90	51.962	315	15.63	85
Sept. 7	29.779	311	38.99	81	52.277	307	16.48	73
17	30.090	299	39.80	70	52.584	298	17.21	59
27	30.389	284	40.50	58	52.882	284	17.80	45
Okt. 7	30.673	267	41.08	46	53.166	268	18.25	31
17	30.940	246	41.54	34	53.434	248	18.56	18
27	31.186	221	41.88	25	53.682	224	18.74	7
Nov. 6	31.407	194	42.13	16	53.906	197	18.81	3
16	31.601	162	42.29	10	54.103	166	18.78	10
26	27 31.763	127	42.39	6	29 54.269	133	18.68	14
Dez. 5	31.890	89	42.45	2	54.402	94	18.54	16
15	31.979	47	42.47	1	54.496	53	18.38	18
25	32.026	5	42.46	2	54.549	12	18.20	18
35	32.031		42.44		54.561		18.02	
Mittl. Ort	28.095		27.67		50.651		4.52	
sec δ, tg δ	1.058		+0.345		1.042		+0.294	

Tag	171) α Doradus AR.		171) α Doradus Dekl.		169) ν Eridani AR.		169) ν Eridani Dekl.	
1929	4h 32m		−55° 10′		4h 32m		−3° 29′	
Jan. 0	29.557	188	95.37	251	46.548	27	47.33	112
10	29.369	245	97.88	209	46.521	64	48.45	97
20	29.124	294	99.97	161	46.457	100	49.42	80
30	28.830	332	101.58	109	46.357	129	50.22	61
Febr. 9	28.498	360	102.67	54	46.228	151	50.83	42
19	28.138	374	103.21	0	46.077	165	51.25	21
März 1	27.764	375	103.21	56	45.912	169	51.46	0
11	27.389	363	102.65	107	45.743	163	51.46	20
21	27.026	339	101.58	157	45.580	147	51.26	41
31	26.687	301	100.01	203	45.433	124	50.85	63
Apr. 10	26.386	255	97.98	244	45.309	90	50.22	84
20	26.131	198	95.54	279	45.219	53	49.38	105
30	25.933	137	92.75	310	45.166	11	48.33	124
Mai 10	25.796	69	89.65	333	45.155	34	47.09	144
20	25.727	1	86.32	348	45.189	78	45.65	159
30	25.728	69	82.84	356	45.267	121	44.06	172
Juni 9	25.797	138	79.28	355	45.388	162	42.34	182
19	25.935	202	75.73	344	45.550	198	40.52	186
29	26.137	260	72.29	326	45.748	228	38.66	187
Juli 9	26.397	313	69.03	298	45.976	254	36.79	182
19	26.710	356	66.05	261	46.230	274	34.97	172
29	27.066	391	63.44	217	46.504	288	33.25	156
Aug. 8	27.457	416	61.27	166	46.792	295	31.69	136
18	27.873	431	59.61	109	47.087	299	30.33	110
28	28.304	434	58.52	48	47.386	297	29.23	81
Sept. 7	28.738	428	58.04	14	47.683	291	28.42	50
17	29.166	410	58.18	78	47.974	280	27.92	18
27	29.576	382	58.96	137	48.254	267	27.74	15
Okt. 7	29.958	346	60.33	194	48.521	250	27.89	46
17	30.304	300	62.27	241	48.771	230	28.35	73
27	30.604	247	64.68	281	49.001	207	29.08	97
Nov. 6	30.851	187	67.49	309	49.208	180	30.05	115
16	31.038	123	70.58	328	49.388	149	31.20	128
26	29 31.161	55	73.86	331	29 49.537	116	32.48	134
Dez. 5	31.216	14	77.17	324	49.653	79	33.82	134
15	31.202	83	80.41	305	49.732	41	35.16	130
25	31.119	149	83.46	276	49.773	1	36.46	120
35	30.970		86.22		49.774		37.66	
Mittl. Ort	27.720		87.86		46.209		47.24	
sec δ, tg δ	1.752		−1.438		1.002		−0.061	

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Tag	172) 53 Eridani AR.		172) 53 Eridani Dekl.		174) τ Tauri AR.		174) τ Tauri Dekl.		173) Grb 848 AR.		173) Grb 848 Dekl.		175) 4 Camelop. AR.		175) 4 Camelop. Dekl.	
1929	4h 34m		−14° 26′		4h 37m		+22° 49′		4h 39m		+75° 48′		4h 42m		+56° 37′	
	s		″		s		″		s		″		s		″	
Jan. 0	56.119	38	32.44	158	59.111	13	24.43	18	16.98	26	66.27	268	5.479	58	68.79	190
10	56.081	76	34.02	136	59.098	56	24.61	13	16.72	41	68.95	234	5.421	130	70.69	166
20	56.005	111	35.38	111	59.042	97	24.74	8	16.31	55	71.29	193	5.291	196	72.35	136
30	55.894	141	36.49	82	58.945	130	24.82	2	15.76	66	73.22	145	5.095	250	73.71	100
Febr. 9	55.753	163	37.31	53	58.815	156	24.84	5	15.10	75	74.67	92	4.845	292	74.71	60
19	55.590	177	37.84	22	58.659	173	24.79	12	14.35	79	75.59	36	4.553	317	75.31	19
März 1	55.413	181	38.06	9	58.486	178	24.67	20	13.56	80	75.95	21	4.236	325	75.50	23
11	55.232	176	37.97	39	58.308	172	24.47	26	12.76	77	75.74	75	3.911	313	75.27	62
21	55.056	160	37.58	69	58.136	155	24.21	29	11.99	70	74.99	126	3.598	286	74.65	98
31	54.896	136	36.89	99	57.981	128	23.92	30	11.29	60	73.73	169	3.312	241	73.67	130
Apr. 10	54.760	103	35.90	127	57.853	93	23.62	29	10.69	47	72.04	206	3.071	185	72.37	154
20	54.657	66	34.63	153	57.760	51	23.33	23	10.22	34	69.98	234	2.886	116	70.83	172
30	54.591	23	33.10	176	57.709	5	23.10	16	9.88	18	67.64	252	2.770	43	69.11	182
Mai 10	54.568	21	31.34	197	57.704	44	22.94	6	9.70	1	65.12	260	2.727	36	67.29	186
20	54.589	67	29.37	214	57.748	92	22.88	6	9.69	16	62.52	261	2.763	114	65.43	181
30	54.656	110	27.23	227	57.840	139	22.94	20	9.85	33	59.91	252	2.877	189	63.62	171
Juni 9	54.766	152	24.96	234	57.979	183	23.14	33	10.18	47	57.39	236	3.066	261	61.91	156
19	54.918	190	22.62	235	58.162	221	23.47	46	10.65	62	55.03	213	3.327	325	60.35	135
29	55.108	222	20.27	231	58.383	255	23.93	59	11.27	75	52.90	183	3.652	380	59.00	111
Juli 9	55.330	249	17.96	220	58.638	282	24.52	69	12.02	85	51.07	151	4.032	428	57.89	84
19	55.579	271	15.76	203	58.920	302	25.21	77	12.87	95	49.56	114	4.460	465	57.05	56
29	55.850	286	13.73	179	59.222	318	25.98	83	13.82	101	48.42	74	4.925	493	56.49	27
Aug. 8	56.136	296	11.94	149	59.540	326	26.81	84	14.83	106	47.68	33	5.418	511	56.22	3
18	56.432	300	10.45	115	59.866	329	27.65	84	15.89	108	47.35	9	5.929	521	56.25	33
28	56.732	299	9.30	77	60.195	328	28.49	81	16.97	110	47.44	50	6.450	522	56.58	60
Sept. 7	57.031	293	8.53	36	60.523	322	29.30	76	18.07	109	47.94	92	6.972	516	57.18	87
17	57.324	283	8.17	5	60.845	312	30.06	68	19.16	106	48.86	131	7.488	503	58.05	113
27	57.607	269	8.22	47	61.157	299	30.74	60	20.22	101	50.17	168	7.991	483	59.18	137
Okt. 7	57.876	251	8.69	86	61.456	283	31.34	53	21.23	94	51.85	204	8.474	456	60.55	158
17	58.127	230	9.55	121	61.739	264	31.87	44	22.17	87	53.89	235	8.930	423	62.13	178
27	58.357	205	10.76	150	62.003	240	32.31	38	23.04	76	56.24	262	9.353	381	63.91	194
Nov. 6	58.562	176	12.26	172	62.243	212	32.69	32	23.80	64	58.86	285	9.734	333	65.85	208
16	58.738	144	13.98	187	62.455	181	33.01	28	24.44	50	61.71	301	10.067	277	67.93	218
26	[30] 58.882	109	15.85	194	[1] 62.636	145	33.29	26	[1] 24.94	36	64.72	310	[2] 10.344	213	70.11	222
Dez. 5	58.991	70	17.79	193	62.781	105	33.55	23	25.30	19	67.82	309	10.557	144	72.33	222
15	59.061	31	19.72	185	62.886	62	33.78	20	25.49	2	70.91	301	10.701	70	74.55	215
25	59.092	10	21.57	172	62.948	18	33.98	18	25.51	15	73.92	283	10.771	7	76.70	201
35	59.082		23.29		62.966		34.16		25.36		76.75		10.764		78.71	
Mittl. Ort	55.649		30.51		58.876		19.69		14.78		54.73		4.845		59.14	
sec δ, tg δ	1.033		−0.258		1.085		+0.421		4.081		+3.956		1.818		+1.518	

Tag	178) 9 Camelop. AR.	Δ	Dekl.	Δ	180) π^5 Orionis AR.	Δ	Dekl.	Δ	181) ι Aurigae AR.	Δ	Dekl.	Δ	183) ε Aurigae AR.	Δ	Dekl.	Δ
1929	4h 46m		+66° 13′		4h 50m		+2° 19′		4h 52m		+33° 3′		4h 56m		+43° 43′	
Jan. 0	59.82	10	38.86	235	33.433	8	33.68	89	22.340	3	25.22	74	52.636	7	19.31	132
10	59.72	20	41.21	208	33.425	48	32.79	78	22.337	53	25.96	65	52.629	65	20.63	117
20	59.52	29	43.29	172	33.377	86	32.01	66	22.284	99	26.61	53	52.564	119	21.80	98
30	59.23	36	45.01	131	33.291	119	31.35	52	22.185	138	27.14	38	52.445	166	22.78	75
Febr. 9	58.87	42	46.32	84	33.172	144	30.83	37	22.047	169	27.52	21	52.279	202	23.53	48
19	58.45	45	47.16	36	33.028	161	30.46	23	21.878	191	27.73	4	52.077	225	24.01	19
März 1	58.00	47	47.52	14	32.867	169	30.23	8	21.687	198	27.77	14	51.852	236	24.20	9
11	57.53	45	47.38	62	32.698	165	30.15	8	21.489	195	27.63	31	51.616	233	24.11	37
21	57.08	41	46.76	107	32.533	152	30.23	23	21.294	179	27.32	45	51.383	215	23.74	63
31	56.67	35	45.69	144	32.381	130	30.46	40	21.115	152	26.87	57	51.168	184	23.11	84
Apr. 10	56.32	28	44.25	177	32.251	100	30.86	56	20.963	115	26.30	66	50.984	142	22.27	102
20	56.04	19	42.48	202	32.151	63	31.42	74	20.848	70	25.64	69	50.842	92	21.25	113
30	55.85	9	40.46	217	32.088	21	32.16	91	20.778	21	24.95	68	50.750	36	20.12	120
Mai 10	55.76	1	38.29	225	32.067	22	33.07	107	20.757	31	24.27	64	50.714	24	18.92	121
20	55.77	11	36.04	225	32.089	66	34.14	122	20.788	85	23.63	57	50.738	85	17.71	116
30	55.88	22	33.79	217	32.155	110	35.36	135	20.873	135	23.06	45	50.823	144	16.55	107
Juni 9	56.10	31	31.62	202	32.265	150	36.71	145	21.008	183	22.61	32	50.967	199	15.48	95
19	56.41	40	29.60	181	32.415	187	38.16	153	21.191	227	22.29	18	51.166	249	14.53	79
29	56.81	48	27.79	155	32.602	219	39.69	156	21.418	265	22.11	3	51.415	293	13.74	61
Juli 9	57.29	55	26.24	127	32.821	246	41.25	154	21.683	296	22.08	11	51.708	330	13.13	42
19	57.84	60	24.97	94	33.067	268	42.79	148	21.979	321	22.19	26	52.038	361	12.71	22
29	58.44	64	24.03	60	33.335	283	44.27	138	22.300	339	22.45	38	52.399	383	12.49	3
Aug. 8	59.08	67	23.43	24	33.618	293	45.65	122	22.639	351	22.83	48	52.782	398	12.46	16
18	59.75	68	23.19	11	33.911	299	46.87	102	22.990	358	23.31	57	53.180	407	12.62	35
28	60.43	69	23.30	46	34.210	299	47.89	79	23.348	359	23.88	65	53.587	410	12.97	51
Sept. 7	61.12	69	23.76	81	34.509	296	48.68	53	23.707	355	24.53	69	53.997	408	13.48	67
17	61.81	67	24.57	114	34.805	288	49.21	26	24.062	348	25.22	72	54.405	400	14.15	80
27	62.48	65	25.71	146	35.093	278	49.47	2	24.410	336	25.94	75	54.805	387	14.95	94
Okt. 7	63.13	61	27.17	176	35.371	264	49.45	28	24.746	320	26.69	77	55.192	370	15.89	106
17	63.74	56	28.93	202	35.635	246	49.17	52	25.066	300	27.46	78	55.562	348	16.95	116
27	64.30	51	30.95	225	35.881	225	48.65	72	25.366	277	28.24	80	55.910	320	18.11	126
Nov. 6	64.81	44	33.20	244	36.106	200	47.93	89	25.643	248	29.04	82	56.230	286	19.37	134
16	65.25	36	35.64	259	36.306	171	47.04	99	25.891	213	29.86	82	56.516	246	20.71	141
26	65.61	27	38.23	267	36.477	138	46.05	106	26.104	174	30.68	83	56.762	199	22.12	146
Dez. 5	65.88	18	40.90	269	36.615	101	44.99	107	26.278	130	31.51	83	56.961	148	23.58	147
15	66.06	7	43.59	261	36.716	62	43.92	103	26.408	82	32.34	81	57.109	92	25.05	143
25	66.13	3	46.20	248	36.778	20	42.89	97	26.490	32	33.15	77	57.201	34	26.48	137
35	66.10		48.68		36.798		41.92		26.522		33.92		57.235		27.85	
Mittl. Ort	58.69		28.42		33.091		32.24		22.026		18.96		52.204		11.70	
sec δ, tg δ	2.481		+2.270		1.001		+0.041		1.193		+0.651		1.384		+0.956	

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Tag	182) 10 Camelop. AR.	Δ	182) Dekl.	Δ	184) ι Tauri AR.	Δ	184) Dekl.	Δ	185) η Aurigae AR.	Δ	185) Dekl.	Δ	186) ε Leporis AR.	Δ	186) Dekl.	Δ
1929	4h 57m		+60° 20'		4h 58m		+21° 29'		5h 1m		+41° 8'		5h 2m		−22° 27'	
	s		"		s		"		s		"		s		"	
Jan. 0	6.52	4	35.98	214	51.310	6	28.60	11	32.369	2	31.73	119	27.971	28	56.77	204
10	6.48	13	38.12	191	51.316	39	28.71	10	32.371	56	32.92	107	27.943	71	58.81	178
20	6.35	21	40.03	161	51.277	82	28.81	8	32.315	107	33.99	90	27.872	111	60.59	148
30	6.14	27	41.64	125	51.195	118	28.89	4	32.208	153	34.89	69	27.761	145	62.07	114
Febr. 9	5.87	32	42.89	84	51.077	148	28.93	0	32.055	189	35.58	46	27.616	172	63.21	78
19	5.55	35	43.73	40	50.929	168	28.93	6	31.866	214	36.04	20	27.444	191	63.99	41
März 1	5.20	37	44.13	4	50.761	178	28.87	10	31.652	225	36.24	6	27.253	200	64.40	3
11	4.83	36	44.09	47	50.583	175	28.77	15	31.427	223	36.18	31	27.053	198	64.43	34
21	4.47	33	43.62	88	50.408	162	28.62	19	31.204	206	35.87	55	26.855	186	64.09	70
31	4.14	29	42.74	123	50.246	139	28.43	20	30.998	178	35.32	75	26.669	166	63.39	106
Apr. 10	3.85	23	41.51	154	50.107	106	28.23	19	30.820	139	34.57	90	26.503	136	62.33	139
20	3.62	16	39.97	176	50.001	68	28.04	15	30.681	91	33.67	100	26.367	100	60.94	169
30	3.46	8	38.21	191	49.933	23	27.89	8	30.590	37	32.67	107	26.267	59	59.25	197
Mai 10	3.38	0	36.30	199	49.910	24	27.81	1	30.553	20	31.60	107	26.208	15	57.28	221
20	3.38	10	34.31	200	49.934	72	27.80	10	30.573	78	30.53	103	26.193	31	55.07	240
30	3.48	17	32.31	193	50.006	117	27.90	22	30.651	135	29.50	95	26.224	77	52.67	255
Juni 9	3.65	25	30.38	181	50.123	162	28.12	33	30.786	188	28.55	82	26.301	120	50.12	263
19	3.90	33	28.57	162	50.285	201	28.45	43	30.974	237	27.73	68	26.421	160	47.49	264
29	4.23	39	26.95	140	50.486	236	28.88	54	31.211	279	27.05	51	26.581	197	44.85	259
Juli 9	4.62	45	25.55	115	50.722	265	29.42	63	31.490	316	26.54	34	26.778	229	42.26	247
19	5.07	50	24.40	86	50.987	288	30.05	69	31.806	345	26.20	16	27.007	256	39.79	227
29	5.57	53	23.54	56	51.275	305	30.74	72	32.151	367	26.04	1	27.263	276	37.52	200
Aug. 8	6.10	55	22.98	26	51.580	317	31.46	73	32.518	382	26.05	18	27.539	291	35.52	167
18	6.65	57	22.72	6	51.897	323	32.19	71	32.900	392	26.23	33	27.830	301	33.85	128
28	7.22	57	22.78	36	52.220	326	32.90	66	33.292	395	26.56	48	28.131	305	32.57	84
Sept. 7	7.79	58	23.14	66	52.546	323	33.56	59	33.687	394	27.04	61	28.436	304	31.73	38
17	8.37	56	23.80	96	52.869	316	34.15	52	34.081	387	27.65	72	28.740	298	31.35	11
27	8.93	55	24.76	123	53.185	307	34.67	42	34.468	376	28.37	83	29.038	288	31.46	59
Okt. 7	9.48	52	25.99	149	53.492	294	35.09	34	34.844	360	29.20	93	29.326	272	32.05	105
17	10.00	48	27.48	172	53.786	276	35.43	25	35.204	339	30.13	102	29.598	253	33.10	146
27	10.48	44	29.20	194	54.062	256	35.68	19	35.543	313	31.15	110	29.851	229	34.56	181
Nov. 6	10.92	39	31.14	212	54.318	231	35.87	14	35.856	282	32.25	117	30.080	201	36.37	210
16	11.31	33	33.26	226	54.549	200	36.01	10	36.138	244	33.42	124	30.281	167	38.47	229
26	11.64	26	35.52	234	54.749	166	36.11	9	36.382	201	34.66	128	30.448	130	40.76	239
Dez. 6	11.90	18	37.86	238	54.915	126	36.20	8	36.583	151	35.94	130	30.578	90	43.15	241
15	12.08	9	40.24	234	55.041	83	36.28	9	36.734	97	37.24	128	30.668	47	45.56	234
25	12.17	2	42.58	223	55.124	38	36.37	9	36.831	41	38.52	123	30.715	1	47.90	218
35	12.19		44.81		55.162		36.46		36.872		39.75		30.716		50.08	
Mittl. Ort	5.65		26.52		51.007		24.09		31.952		24.57		27.300		55.16	
sec δ, tg δ	2.021		+1.756		1.075		+0.394		1.328		+0.874		1.082		−0.413	

Tag	188) β Eridani AR.		Dekl.		192) μ Aurigae AR.		Dekl.		191) 19 H. Camelop. AR.		Dekl.		194) β Orionis AR.		Dekl.	
1929	5h 4m		−5° 10′		5h 8m		+38° 24′		5h 10m		+79° 9′		5h 11m		−8° 16′	
Jan. 0	21.950	3	36.47	131	34.429	12	14.07	106	52.79	21	23.70	295	7.967	0	56.27	147
10	21.947	45	37.78	114	34.441	43	15.13	96	52.58	43	26.65	269	7.967	43	57.74	130
20	21.902	84	38.92	96	34.398	95	16.09	82	52.15	63	29.34	233	7.924	82	59.04	109
30	21.818	117	39.88	75	34.303	141	16.91	64	51.52	80	31.67	188	7.842	118	60.13	86
Febr. 9	21.701	145	40.63	54	34.162	177	17.55	45	50.72	93	33.55	137	7.724	146	60.99	61
19	21.556	164	41.17	31	33.985	202	18.00	22	49.79	101	34.92	82	7.578	166	61.60	36
März 1	21.392	174	41.48	8	33.783	214	18.22	1	48.78	105	35.74	24	7.412	176	61.96	11
11	21.218	172	41.56	14	33.569	214	18.21	24	47.73	105	35.98	34	7.236	176	62.07	15
21	21.046	162	41.42	36	33.355	200	17.97	45	46.68	99	35.64	88	7.060	167	61.92	40
31	20.884	141	41.06	59	33.155	175	17.52	63	45.69	89	34.76	139	6.893	147	61.52	65
Apr. 10	20.743	113	40.47	81	32.980	137	16.89	77	44.80	74	33.37	182	6.746	120	60.87	90
20	20.630	78	39.66	103	32.843	92	16.12	87	44.06	58	31.55	218	6.626	86	59.97	113
30	20.552	39	38.63	123	32.751	41	15.25	92	43.48	39	29.37	245	6.540	47	58.84	134
Mai 10	20.513	4	37.40	141	32.710	13	14.33	92	43.09	18	26.92	263	6.493	4	57.50	155
20	20.517	48	35.99	158	32.723	69	13.41	88	42.91	3	24.29	271	6.489	39	55.95	171
30	20.565	90	34.41	171	32.792	123	12.53	80	42.94	24	21.58	271	6.528	82	54.24	186
Juni 9	20.655	132	32.70	182	32.915	175	11.73	70	43.18	45	18.87	262	6.610	123	52.38	195
19	20.787	169	30.88	187	33.090	223	11.03	57	43.63	65	16.25	247	6.733	161	50.43	200
29	20.956	202	29.01	186	33.313	264	10.46	42	44.28	82	13.78	223	6.894	195	48.43	200
Juli 9	21.158	231	27.15	183	33.577	299	10.04	27	45.10	98	11.55	195	7.089	224	46.43	195
19	21.389	254	25.32	172	33.876	328	9.77	11	46.08	112	9.60	163	7.313	249	44.48	182
29	21.643	272	23.60	156	34.204	351	9.66	4	47.20	123	7.97	126	7.562	268	42.66	165
Aug. 8	21.915	285	22.04	135	34.555	367	9.70	18	48.43	131	6.71	86	7.830	281	41.01	142
18	22.200	293	20.69	109	34.922	376	9.88	31	49.74	138	5.85	45	8.111	291	39.59	113
28	22.493	295	19.60	80	35.298	381	10.19	43	51.12	141	5.40	3	8.402	295	38.46	81
Sept. 7	22.788	295	18.80	46	35.679	380	10.62	52	52.53	143	5.37	40	8.697	295	37.65	46
17	23.083	289	18.34	13	36.059	375	11.14	62	53.96	141	5.77	83	8.992	291	37.19	9
27	23.372	280	18.21	22	36.434	366	11.76	70	55.37	137	6.60	124	9.283	282	37.10	28
Okt. 7	23.652	268	18.43	55	36.800	352	12.46	78	56.74	131	7.84	163	9.565	271	37.38	64
17	23.920	251	18.98	85	37.152	333	13.24	85	58.05	122	9.47	201	9.836	255	38.02	97
27	24.171	231	19.83	110	37.485	309	14.09	91	59.27	110	11.48	236	10.091	236	38.99	125
Nov. 6	24.402	207	20.93	132	37.794	280	15.00	98	60.37	95	13.84	265	10.327	211	40.24	147
16	24.609	178	22.25	145	38.074	245	15.98	104	61.32	79	16.49	289	10.538	182	41.71	163
26	24.787	145	23.70	153	38.319	204	17.02	109	62.11	60	19.38	306	10.720	149	43.34	172
Dez. 6	24.932	108	25.23	155	38.523	156	18.11	111	62.71	38	22.44	315	10.869	112	45.06	173
15	25.040	68	26.78	150	38.679	104	19.22	111	63.09	16	25.59	315	10.981	71	46.79	169
25	25.108	26	28.28	140	38.783	50	20.33	107	63.25	6	28.74	305	11.052	29	48.48	159
35	25.134		29.68		38.833		21.40		63.19		31.79		11.081		50.07	
Mittl. Ort	21.511		37.22		34.016		7.42		49.14		13.54		7.482		56.86	
sec δ, tg δ	1.004		−0.091		1.276		+0.793		5.314		+5.219		1.011		−0.146	

Tag	193) α Aurigae				196) ϑ Doradus				201) γ Orionis				202) β Tauri			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
1929	$5^h\ 11^m$		$+45°\ 55'$		$5^h\ 13^m$		$-67°\ 15'$		$5^h\ 21^m$		$+6°\ 17'$		$5^h\ 21^m$		$+28°\ 32'$	
	s		"		s		"		s		"		s		"	
Jan. 0	26.979	10	46.89	146	51.87	26	58.74	295	19.716	21	14.45	77	48.520	29	61.92	50
10	26.989	53	48.35	132	51.61	36	61.69	257	19.737	23	13.68	66	48.549	21	62.42	48
20	26.936	112	49.67	114	51.25	44	64.26	213	19.714	65	13.02	55	48.528	70	62.90	44
30	26.824	162	50.81	91	50.81	51	66.39	163	19.649	103	12.47	43	48.458	112	63.34	36
Febr. 9	26.662	203	51.72	65	50.30	56	68.02	109	19.546	133	12.04	32	48.346	148	63.70	26
19	26.459	232	52.37	34	49.74	59	69.11	54	19.413	155	11.72	21	48.198	173	63.96	14
März 1	26.227	246	52.71	4	49.15	61	69.65	2	19.258	168	11.51	9	48.025	187	64.10	3
11	25.981	245	52.75	27	48.54	60	69.63	57	19.090	170	11.42	2	47.838	190	64.13	10
21	25.736	231	52.48	55	47.94	59	69.06	109	18.920	162	11.44	13	47.648	180	64.03	21
31	25.505	202	51.93	80	47.35	54	67.97	160	18.758	143	11.57	26	47.468	159	63.82	30
Apr. 10	25.303	162	51.13	101	46.81	49	66.37	206	18.615	117	11.83	38	47.309	128	63.52	38
20	25.141	111	50.12	116	46.32	42	64.31	247	18.498	83	12.21	52	47.181	90	63.14	42
30	25.030	56	48.96	126	45.90	34	61.84	283	18.415	44	12.73	65	47.091	45	62.72	42
Mai 10	24.974	5	47.70	131	45.56	26	59.01	313	18.371	1	13.38	79	47.046	3	62.30	39
20	24.979	68	46.39	130	45.30	16	55.88	335	18.370	42	14.17	91	47.049	52	61.91	34
30	25.047	129	45.09	125	45.14	6	52.53	350	18.412	84	15.08	104	47.101	101	61.57	27
Juni 9	25.176	186	43.84	114	45.08	3	49.03	356	18.496	126	16.12	114	47.202	148	61.30	18
19	25.362	239	42.70	100	45.11	13	45.47	354	18.622	164	17.26	121	47.350	190	61.12	7
29	25.601	287	41.70	84	45.24	23	41.93	340	18.786	198	18.47	124	47.540	229	61.05	3
Juli 9	25.888	327	40.86	66	45.47	31	38.53	320	18.984	227	19.71	126	47.769	261	61.08	12
19	26.215	361	40.20	47	45.78	40	35.33	289	19.211	252	20.97	123	48.030	288	61.20	22
29	26.576	386	39.73	27	46.18	46	32.44	250	19.463	270	22.20	114	48.318	310	61.42	29
Aug. 8	26.962	406	39.46	7	46.64	52	29.94	201	19.733	285	23.34	103	48.628	325	61.71	35
18	27.368	418	39.39	12	47.16	56	27.93	147	20.018	295	24.37	87	48.953	335	62.06	39
28	27.786	424	39.51	30	47.72	59	26.46	87	20.313	299	25.24	67	49.288	342	62.45	40
Sept. 7	28.210	424	39.81	48	48.31	60	25.59	24	20.612	301	25.91	46	49.630	343	62.85	41
17	28.634	419	40.29	64	48.91	59	25.35	41	20.913	298	26.37	22	49.973	340	63.26	40
27	29.053	410	40.93	79	49.50	57	25.76	107	21.211	292	26.59	2	50.313	334	63.66	38
Okt. 7	29.463	394	41.72	94	50.07	52	26.83	167	21.503	283	26.57	25	50.647	324	64.04	37
17	29.857	373	42.66	108	50.59	47	28.50	222	21.786	270	26.32	45	50.971	309	64.41	37
27	30.230	347	43.74	121	51.06	40	30.72	270	22.056	251	25.87	64	51.280	290	64.78	36
Nov. 6	30.577	313	44.95	132	51.46	31	33.42	308	22.307	230	25.23	78	51.570	266	65.14	37
16	30.890	273	46.27	142	51.77	22	36.50	333	22.537	203	24.45	88	51.836	236	65.51	39
26	31.163	226	47.69	150	51.99	11	39.83	347	22.740	171	23.57	93	52.072	200	65.90	42
Dez. 6	31.389	173	49.19	154	52.10	1	43.30	349	22.911	135	22.64	93	52.272	159	66.32	45
	9				10				12				12			
15	31.562	114	50.73	154	52.11	10	46.79	337	23.046	94	21.71	90	52.431	113	66.77	48
25	31.676	52	52.27	150	52.01	21	50.16	316	23.140	51	20.81	83	52.544	64	67.25	49
35	31.728		53.77		51.80		53.32		23.191		19.98		52.608		67.74	
Mittl. Ort	26.453		39.45		48.43		54.66		19.324		11.78		48.136		56.66	
sec δ, tg δ	1.438		+1.033		2.588		−2.387		1.006		+0.110		1.138		+0.544	

Tag	203) 17 Camelop. AR.		Dekl.		206) δ Orionis AR.		Dekl.		207) α Leporis AR.		Dekl.		205) Grb 966 AR.		Dekl.	
1929	5h 23m		+63° 0′		5h 28m		−0° 20′		5h 29m		−17° 51′		5h 30m		+74° 59′	
Jan. 0	28.68	0	45.60	235	23.144	22	59.41	114	36.529	3	78.87	199	15.85	5	69.50	287
10	28.68	10	47.95	217	23.166	22	60.55	100	36.532	42	80.86	178	15.80	22	72.37	266
20	28.58	19	50.12	190	23.144	64	61.55	85	36.490	84	82.64	151	15.58	38	75.03	235
30	28.39	27	52.02	157	23.080	101	62.40	67	36.406	122	84.15	122	15.20	50	77.38	198
Febr. 9	28.12	33	53.59	119	22.979	133	63.07	49	36.284	153	85.37	90	14.70	62	79.36	152
19	27.79	37	54.78	74	22.846	156	63.56	32	36.131	176	86.27	56	14.08	70	80.88	101
März 1	27.42	40	55.52	29	22.690	169	63.88	13	35.955	190	86.83	22	13.38	74	81.89	46
11	27.02	41	55.81	17	22.521	172	64.01	5	35.765	192	87.05	12	12.64	75	82.35	8
21	26.61	38	55.64	61	22.349	165	63.96	22	35.573	186	86.93	45	11.89	72	82.27	62
31	26.23	35	55.03	102	22.184	148	63.74	41	35.387	169	86.48	78	11.17	66	81.65	112
Apr. 10	25.88	29	54.01	138	22.036	123	63.33	59	35.218	143	85.70	109	10.51	56	80.53	156
20	25.59	21	52.63	167	21.913	91	62.74	77	35.075	112	84.61	138	9.95	45	78.97	193
30	25.38	14	50.96	189	21.822	53	61.97	94	34.963	73	83.23	165	9.50	32	77.04	223
Mai 10	25.24	5	49.07	203	21.769	12	61.03	110	34.890	32	81.58	189	9.18	17	74.81	243
20	25.19	4	47.04	210	21.757	31	59.93	126	34.858	11	79.69	209	9.01	1	72.38	256
30	25.23	13	44.94	211	21.788	73	58.67	138	34.869	55	77.60	225	9.00	14	69.82	259
Juni 9	25.36	22	42.83	203	21.861	114	57.29	148	34.924	98	75.35	235	9.14	29	67.23	255
19	25.58	31	40.80	191	21.975	152	55.81	155	35.022	137	73.00	240	9.43	44	64.68	244
29	25.89	37	38.89	173	22.127	186	54.26	157	35.159	174	70.60	239	9.87	57	62.24	226
Juli 9	26.26	44	37.16	151	22.313	216	52.69	156	35.333	206	68.21	230	10.44	69	59.98	202
19	26.70	50	35.65	126	22.529	241	51.13	148	35.539	234	65.91	215	11.13	79	57.96	174
29	27.20	54	34.39	98	22.770	261	49.65	136	35.773	257	63.76	193	11.92	88	56.22	142
Aug. 8	27.74	58	33.41	68	23.031	277	48.29	119	36.030	275	61.83	164	12.80	95	54.80	106
18	28.32	61	32.73	37	23.308	287	47.10	98	36.305	287	60.19	131	13.75	100	53.74	69
28	28.93	62	32.36	6	23.595	294	46.12	74	36.592	296	58.88	91	14.75	104	53.05	30
Sept. 7	29.55	63	32.30	26	23.889	296	45.38	45	36.888	299	57.97	48	15.79	106	52.75	9
17	30.18	62	32.56	58	24.185	294	44.93	15	37.187	298	57.49	3	16.85	106	52.84	50
27	30.80	61	33.14	89	24.479	290	44.78	15	37.485	292	57.46	43	17.91	104	53.34	89
Okt. 7	31.41	59	34.03	118	24.769	281	44.93	45	37.777	283	57.89	86	18.95	100	54.23	128
17	32.00	56	35.21	147	25.050	269	45.38	71	38.060	268	58.75	127	19.95	95	55.51	166
27	32.56	52	36.68	173	25.319	251	46.09	95	38.328	249	60.02	162	20.90	87	57.17	200
Nov. 6	33.08	47	38.41	197	25.570	230	47.04	113	38.577	224	61.64	191	21.77	78	59.17	231
16	33.55	40	40.38	218	25.800	203	48.17	126	38.801	195	63.55	211	22.55	67	61.48	258
26	33.95	33	42.56	232	26.003	172	49.43	133	38.996	161	65.66	224	23.22	53	64.06	278
Dez. 6	34.28	25	44.88	242	26.175	136	50.76	135	39.157	121	67.90	229	23.75	39	66.84	292
15	34.53	15	47.30	245	26.311	95	52.11	132	39.278	79	70.19	224	24.14	22	69.76	296
25	34.68	6	49.75	240	26.406	52	53.43	122	39.357	34	72.43	212	24.36	5	72.72	292
35	34.74		52.15		26.458		54.65		39.391		74.55		24.41		75.64	
Mittl. Ort	27.51		37.10		22.698		61.49		35.886		79.28		13.19		60.61	
sec δ, tg δ	2.203		+1.964		1.000		−0.006		1.051		−0.322		3.864		+3.732	

Tag	209) ι Orionis AR.		Dekl.		210) ε Orionis AR.		Dekl.		212) β Doradus AR.		Dekl.		211) ζ Tauri AR.		Dekl.	
1929	5h 31m		−5° 57′		5h 32m		−1° 14′		5h 32m		−62° 31′		5h 33m		+21° 6′	
	s		″		s		″		s		″		s		″	
Jan. 0	58.071	21	17.61	145	37.056	25	43.54	121	63.15	17	71.88	312	24.425	39	6.91	0
10	58.092	24	19.06	128	37.081	19	44.75	106	62.98	25	75.00	278	24.464	9	6.97	19
20	58.068	67	20.34	108	37.062	62	45.81	89	62.73	33	77.78	237	24.455	56	7.07	12
30	58.001	104	21.42	87	37.000	99	46.70	71	62.40	39	80.15	191	24.399	98	7.19	11
Febr. 9	57.897	135	22.29	64	36.901	132	47.41	53	62.01	44	82.06	139	24.301	133	7.30	10
19	57.762	159	22.93	42	36.769	155	47.94	34	61.57	48	83.45	85	24.168	159	7.40	7
März 1	57.603	173	23.35	18	36.614	169	48.28	14	61.09	49	84.30	30	24.009	174	7.47	2
11	57.430	176	23.53	7	36.445	173	48.42	4	60.60	50	84.60	25	23.835	179	7.49	2
21	57.254	170	23.46	29	36.272	166	48.38	23	60.10	49	84.35	78	23.656	172	7.47	5
31	57.084	154	23.17	52	36.106	151	48.15	42	59.61	46	83.57	129	23.484	154	7.42	8
Apr. 10	56.930	129	22.65	75	35.955	125	47.73	61	59.15	41	82.28	178	23.330	127	7.34	9
20	56.801	97	21.90	96	35.830	94	47.12	79	58.74	37	80.50	222	23.203	93	7.25	8
30	56.704	60	20.94	117	35.736	57	46.33	96	58.37	30	78.28	260	23.110	51	7.17	5
Mai 10	56.644	19	19.77	136	35.679	16	45.37	114	58.07	23	75.68	294	23.059	7	7.12	0
20	56.625	22	18.41	153	35.663	26	44.23	129	57.84	15	72.74	320	23.052	38	7.12	7
30	56.647	65	16.88	167	35.689	69	42.94	141	57.69	7	69.54	339	23.090	84	7.19	15
Juni 9	56.712	106	15.21	177	35.758	109	41.53	152	57.62	1	66.15	350	23.174	129	7.34	24
19	56.818	144	13.44	183	35.867	148	40.01	158	57.63	9	62.65	351	23.303	169	7.58	31
29	56.962	179	11.61	184	36.015	181	38.43	161	57.72	18	59.14	344	23.472	205	7.89	39
Juli 9	57.141	209	9.77	180	36.196	212	36.82	158	57.90	24	55.70	327	23.677	237	8.28	45
19	57.350	235	7.97	170	36.408	238	35.24	151	58.14	32	52.43	300	23.914	264	8.73	49
29	57.585	257	6.27	155	36.646	258	33.73	138	58.46	38	49.43	265	24.178	285	9.22	51
Aug. 8	57.842	272	4.72	135	36.904	274	32.35	121	58.84	43	46.78	220	24.463	302	9.73	50
18	58.114	284	3.37	109	37.178	285	31.14	100	59.27	47	44.58	169	24.765	313	10.23	48
28	58.398	291	2.28	79	37.463	292	30.14	73	59.74	49	42.89	110	25.078	320	10.71	42
Sept. 7	58.689	295	1.49	46	37.755	296	29.41	45	60.23	52	41.79	48	25.398	323	11.13	34
17	58.984	293	1.03	11	38.051	295	28.96	13	60.75	51	41.31	18	25.721	323	11.47	26
27	59.277	289	0.92	25	38.346	290	28.83	17	61.26	50	41.49	82	26.044	318	11.73	18
Okt. 7	59.566	281	1.17	58	38.636	283	29.00	47	61.76	47	42.31	145	26.362	310	11.91	8
17	59.847	268	1.75	91	38.919	270	29.47	75	62.23	43	43.76	204	26.672	298	11.99	1
27	60.115	251	2.66	118	39.189	253	30.22	100	62.66	38	45.80	254	26.970	282	12.00	4
Nov. 6	60.366	230	3.84	140	39.442	233	31.22	118	63.04	32	48.34	296	27.252	261	11.96	8
16	60.596	202	5.24	156	39.675	206	32.40	132	63.36	24	51.30	327	27.513	233	11.88	10
26	60.798	171	6.80	165	39.881	175	33.72	140	63.60	15	54.57	346	27.746	200	11.78	8
Dez. 6	60.969	134	8.45	168	40.056	139	35.12	141	63.75	7	58.03	352	27.946	162	11.70	6
15	61.103	93	10.13	163	40.195	99	36.53	138	63.82	2	61.55	347	28.108	119	11.64	2
25	61.196	51	11.76	155	40.294	55	37.91	129	63.80	11	65.02	329	28.227	73	11.62	2
35	61.247		13.31		40.349		39.20		63.69		68.31		28.300		11.64	
Mittl. Ort	57.573		19.25		36.596		45.66		60.39		69.90		24.034		2.54	
sec δ, tg δ	1.005		−0.104		1.000		−0.022		2.168		−1.924		1.072		+0.386	

Obere Kulmination Greenwich

Tag	215) α Columbae				216) ο Aurigae				219) ζ Leporis				220) κ Orionis			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
1929	$5^h\ 37^m$		$-34°\ 6'$		$5^h\ 40^m$		$+49°\ 47'$		$5^h\ 43^m$		$-14°\ 50'$		$5^h\ 44^m$		$-9°\ 41'$	
	s		"		s		"		s		"		s		"	
Jan. 0	5.614	20	40.62	265	24.637	46	56.38	172	44.883	21	48.78	193	23.878	28	35.38	168
10	5.594	71	43.27	238	24.683	24	58.10	163	44.904	26	50.71	173	23.906	18	37.06	150
20	5.523	118	45.65	204	24.659	91	59.73	147	44.878	69	52.44	148	23.888	62	38.56	128
30	5.405	161	47.69	166	24.568	151	61.20	126	44.809	108	53.92	121	23.826	101	39.84	105
Febr. 9	5.244	194	49.35	124	24.417	202	62.46	100	44.701	142	55.13	92	23.725	134	40.89	79
19	5.050	220	50.59	79	24.215	239	63.46	69	44.559	167	56.05	60	23.591	159	41.68	52
März 1	4.830	236	51.38	35	23.976	263	64.15	36	44.392	182	56.65	29	23.432	175	42.20	25
11	4.594	239	51.73	11	23.713	270	64.51	1	44.210	188	56.94	2	23.257	181	42.45	2
21	4.355	233	51.62	56	23.443	262	64.52	31	44.022	183	56.92	34	23.076	176	42.43	29
31	4.122	217	51.06	98	23.181	239	64.21	62	43.839	169	56.58	64	22.900	162	42.14	54
Apr. 10	3.905	190	50.08	139	22.942	201	63.59	90	43.670	146	55.94	93	22.738	139	41.60	80
20	3.715	156	48.69	178	22.741	153	62.69	113	43.524	116	55.01	121	22.599	108	40.80	105
30	3.559	117	46.91	211	22.588	98	61.56	129	43.408	79	53.80	146	22.491	73	39.75	127
Mai 10	3.442	72	44.80	241	22.490	36	60.27	141	43.329	39	52.34	170	22.418	34	38.48	148
20	3.370	24	42.39	265	22.454	29	58.86	147	43.290	3	50.64	189	22.384	9	37.00	166
30	3.346	24	39.74	284	22.483	93	57.39	148	43.293	45	48.75	206	22.393	50	35.34	181
Juni 9	3.370	72	36.90	295	22.576	156	55.91	144	43.338	87	46.69	217	22.443	91	33.53	192
19	3.442	117	33.95	300	22.732	215	54.47	134	43.425	126	44.52	222	22.534	130	31.61	198
29	3.559	161	30.95	296	22.947	267	53.13	122	43.551	162	42.30	223	22.664	165	29.63	199
Juli 9	3.720	199	27.99	284	23.214	315	51.91	107	43.713	195	40.07	217	22.829	197	27.64	194
19	3.919	234	25.15	264	23.529	356	50.84	90	43.908	224	37.90	203	23.026	224	25.70	183
29	4.153	264	22.51	235	23.885	388	49.94	71	44.132	247	35.87	185	23.250	247	23.87	167
Aug. 8	4.417	288	20.16	198	24.273	415	49.23	52	44.379	265	34.02	159	23.497	265	22.20	144
18	4.705	305	18.18	156	24.688	434	48.71	31	44.644	281	32.43	127	23.762	279	20.76	117
28	5.010	318	16.62	107	25.122	447	48.40	10	44.925	290	31.16	90	24.041	289	19.59	84
Sept. 7	5.328	325	15.55	53	25.569	455	48.30	10	45.215	295	30.26	51	24.330	293	18.75	48
17	5.653	325	15.02	2	26.024	456	48.40	29	45.510	297	29.75	8	24.623	295	18.27	9
27	5.978	320	15.04	59	26.480	451	48.69	49	45.807	294	29.67	35	24.918	292	18.18	29
Okt. 7	6.298	309	15.63	113	26.931	441	49.18	69	46.101	287	30.02	78	25.210	286	18.47	67
17	6.607	291	16.76	164	27.372	424	49.87	88	46.388	274	30.80	116	25.496	274	19.14	102
27	6.898	268	18.40	209	27.796	400	50.75	107	46.662	258	31.96	151	25.770	259	20.16	133
Nov. 6	7.166	238	20.49	246	28.196	369	51.82	125	46.920	236	33.47	179	26.029	237	21.49	159
16	7.404	202	22.95	273	28.565	328	53.07	141	47.156	209	35.26	200	26.266	211	23.08	176
26	7.606	161	25.68	290	28.893	280	54.48	155	47.365	176	37.26	213	26.477	180	24.84	188
Dez. 6	7.767	115	28.58	297	29.173	225	56.03	165	47.541	138	39.39	217	26.657	143	26.72	192
16	7.882	66	31.55	294	29.398	161	57.68	172	47.679	96	41.56	215	26.800	102	28.64	188
25	[16] 7.948	13	34.49	279	[16] 29.559	93	59.40	172	[17] 47.775	52	43.71	204	[17] 26.902	58	30.52	179
35	7.961		37.28		29.652		61.12		47.827		45.75		26.960		32.31	
Mittl. Ort	4.612		40.26		23.917		49.63		44.266		50.15		23.324		37.15	
sec δ, tg δ	1.208		−0.677		1.549		+1.183		1.035		−0.265		1.014		−0.171	

Scheinbare Sternörter 1929

Tag	224) α Orionis AR.	Δ	224) α Orionis Dekl.	Δ	225) δ Aurigae AR.	Δ	225) δ Aurigae Dekl.	Δ	227) β Aurigae AR.	Δ	227) β Aurigae Dekl.	Δ	228) ϑ Aurigae AR.	Δ	228) ϑ Aurigae Dekl.	Δ
1929	5h 51m		+7° 23′		5h 53m		+54° 16′		5h 54m		+44° 56′		5h 54m		+37° 12′	
	s		″		s		″		s		″		s		″	
Jan. 0	20.088	49	46.23	77	41.753	65	59.50	196	19.907	67	37.19	145	53.326	67	38.76	100
10	20.137	2	45.46	67	41.818	13	61.46	188	19.974	2	38.64	141	53.393	8	39.76	99
20	20.139	42	44.79	54	41.805	89	63.34	173	19.976	62	40.05	132	53.401	48	40.75	94
30	20.097	84	44.25	42	41.716	157	65.07	151	19.914	119	41.37	116	53.353	101	41.69	84
Febr. 9	20.013	119	43.83	31	41.559	216	66.58	124	19.795	169	42.53	95	53.252	145	42.53	70
19	19.894	147	43.52	19	41.343	261	67.82	90	19.626	207	43.48	71	53.107	179	43.23	53
März 1	19.747	164	43.33	8	41.082	290	68.72	54	19.419	233	44.19	43	52.928	202	43.76	33
11	19.583	171	43.25	2	40.792	302	69.26	16	19.186	242	44.62	14	52.726	212	44.09	12
21	19.412	167	43.27	13	40.490	297	69.42	22	18.944	238	44.76	15	52.514	208	44.21	9
31	19.245	154	43.40	23	40.193	275	69.20	57	18.706	220	44.61	42	52.306	192	44.12	29
Apr. 10	19.091	131	43.63	33	39.918	238	68.63	90	18.486	189	44.19	66	52.114	163	43.83	47
20	18.960	101	43.96	45	39.680	188	67.73	117	18.297	148	43.53	87	51.951	127	43.36	61
30	18.859	65	44.41	56	39.492	130	66.56	140	18.149	98	42.66	104	51.824	83	42.75	71
Mai 10	18.794	25	44.97	67	39.362	64	65.16	157	18.051	43	41.62	115	51.741	33	42.04	79
20	18.769	17	45.64	79	39.298	6	63.59	167	18.008	15	40.47	121	51.708	19	41.25	81
30	18.786	59	46.43	89	39.304	76	61.92	171	18.023	73	39.26	123	51.727	71	40.44	81
Juni 9	18.845	100	47.32	98	39.380	144	60.21	170	18.096	131	38.03	120	51.798	122	39.63	78
19	18.945	138	48.30	105	39.524	210	58.51	164	18.227	185	36.83	114	51.920	170	38.85	71
29	19.083	173	49.35	108	39.734	269	56.87	153	18.412	233	35.69	105	52.090	213	38.14	63
Juli 9	19.256	205	50.43	109	40.003	324	55.34	139	18.645	278	34.64	94	52.303	253	37.51	54
19	19.461	231	51.52	106	40.327	370	53.95	122	18.923	316	33.70	80	52.556	286	36.97	43
29	19.692	254	52.58	99	40.697	410	52.73	103	19.239	347	32.90	65	52.842	313	36.54	34
Aug. 8	19.946	271	53.57	88	41.107	442	51.70	81	19.586	373	32.25	51	53.155	337	36.20	24
18	20.217	284	54.45	73	41.549	467	50.89	59	19.959	393	31.74	35	53.492	353	35.96	14
28	20.501	294	55.18	55	42.016	484	50.30	36	20.352	407	31.39	20	53.845	366	35.82	6
Sept. 7	20.795	300	55.73	34	42.500	496	49.94	13	20.759	416	31.19	4	54.211	374	35.76	2
17	21.095	302	56.07	12	42.996	501	49.81	11	21.175	420	31.15	11	54.585	377	35.78	11
27	21.397	301	56.19	11	43.497	500	49.92	36	21.595	419	31.26	26	54.962	376	35.89	18
Okt. 7	21.698	296	56.08	33	43.997	490	50.28	59	22.014	412	31.52	42	55.338	371	36.07	26
17	21.994	286	55.75	53	44.487	475	50.87	84	22.426	400	31.94	58	55.709	360	36.33	34
27	22.280	273	55.22	71	44.962	451	51.71	107	22.826	382	32.52	73	56.069	344	36.67	44
Nov. 6	22.553	255	54.51	84	45.413	417	52.78	130	23.208	355	33.25	90	56.413	322	37.11	54
16	22.808	230	53.67	93	45.830	375	54.08	150	23.563	321	34.15	105	56.735	292	37.65	64
26	23.038	201	52.74	98	46.205	323	55.58	169	23.884	279	35.20	119	57.027	256	38.29	75
Dez. 6	23.239	165	51.76	97	46.528	262	57.27	182	24.163	230	36.39	130	57.283	211	39.04	85
16	23.404	124	50.79	93	46.790	193	59.09	192	24.393	172	37.69	139	57.494	161	39.89	92
25	23.528	81	49.86	85	46.983	117	61.01	195	24.565	111	39.08	144	57.655	106	40.81	97
35	23.609		49.01		47.100		62.96		24.676		40.52		57.761		41.78	
Mittl. Ort	19.649		42.98		40.848		53.01		19.252		31.31		52.789		33.40	
sec δ, tg δ	1.008		+0.130		1.713		+1.391		1.413		+0.998		1.256		+0.759	

Tag	229) η Columbae				232) ν Orionis				236) η Geminorum				234) 22 H. Camelop.			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
1929	5h 56m		−42° 48′		6h 3m		+14° 46′		6h 10m		+22° 31′		6h 10m		+69° 20′	
	s		″		s		″		s		″		s		″	
Jan. 0	59.722	21	65.94	301	31.544	65	45.56	36	35.993	78	48.39	9	63.61	10	58.04	268
10	59.701	80	68.95	275	31.609	17	45.20	28	36.071	26	48.48	16	63.71	3	60.72	260
20	59.621	134	71.70	242	31.626	30	44.92	19	36.097	25	48.64	22	63.68	16	63.32	243
30	59.487	183	74.12	202	31.596	75	44.73	11	36.072	71	48.86	24	63.52	27	65.75	216
Febr. 9	59.304	224	76.14	157	31.521	113	44.62	6	36.001	113	49.10	24	63.25	37	67.91	181
19	59.080	255	77.71	109	31.408	143	44.56	0	35.888	145	49.34	23	62.88	44	69.72	139
März 1	58.825	274	78.80	61	31.265	163	44.56	4	35.743	168	49.57	18	62.44	50	71.11	92
11	58.551	283	79.41	11	31.102	172	44.60	6	35.575	179	49.75	14	61.94	53	72.03	42
21	58.268	280	79.52	38	30.930	171	44.66	9	35.396	179	49.89	8	61.41	53	72.45	8
31	57.988	266	79.14	86	30.759	159	44.75	11	35.217	167	49.97	2	60.88	50	72.37	57
Apr. 10	57.722	241	78.28	131	30.600	138	44.86	15	35.050	146	49.99	2	60.38	45	71.80	102
20	57.481	208	76.97	174	30.462	108	45.01	19	34.904	116	49.97	4	59.93	38	70.78	143
30	57.273	167	75.23	213	30.354	72	45.20	25	34.788	79	49.93	7	59.55	29	69.35	178
Mai 10	57.106	121	73.10	246	30.282	32	45.45	31	34.709	38	49.86	5	59.26	19	67.57	205
20	56.985	71	70.64	275	30.250	10	45.76	38	34.671	5	49.81	4	59.07	9	65.52	224
30	56.914	19	67.89	297	30.260	53	46.14	45	34.676	50	49.77	1	58.98	3	63.28	237
Juni 9	56.895	34	64.92	312	30.313	94	46.59	52	34.726	93	49.78	5	59.01	14	60.91	242
19	56.929	85	61.80	319	30.407	134	47.11	58	34.819	135	49.83	9	59.15	24	58.49	240
29	57.014	135	58.61	318	30.541	170	47.69	62	34.954	173	49.92	14	59.39	35	56.09	232
Juli 9	57.149	180	55.43	307	30.711	203	48.31	64	35.127	207	50.06	18	59.74	44	53.77	217
19	57.329	223	52.36	288	30.914	231	48.95	64	35.334	237	50.24	21	60.18	53	51.60	198
29	57.552	261	49.48	260	31.145	254	49.59	60	35.571	262	50.45	21	60.71	60	49.62	175
Aug. 8	57.813	292	46.88	222	31.399	274	50.19	55	35.833	283	50.66	20	61.31	66	47.87	148
18	58.105	317	44.66	179	31.673	288	50.74	46	36.116	300	50.86	17	61.97	71	46.39	119
28	58.422	337	42.87	127	31.961	300	51.20	35	36.416	312	51.03	12	62.68	75	45.20	86
Sept. 7	58.759	349	41.60	70	32.261	308	51.55	20	36.728	321	51.15	6	63.43	78	44.34	52
17	59.108	355	40.90	11	32.569	312	51.75	6	37.049	327	51.21	2	64.21	80	43.82	17
27	59.463	354	40.79	50	32.881	312	51.81	10	37.376	329	51.19	8	65.01	80	43.65	20
Okt. 7	59.817	344	41.29	110	33.193	310	51.71	25	37.705	326	51.11	16	65.81	79	43.85	56
17	60.161	327	42.39	166	33.503	302	51.46	37	38.031	320	50.95	21	66.60	77	44.41	93
27	60.488	303	44.05	217	33.805	290	51.09	49	38.351	309	50.74	24	67.37	73	45.34	129
Nov. 6	60.791	270	46.22	260	34.095	273	50.60	56	38.660	292	50.50	26	68.10	67	46.63	164
16	61.061	231	48.82	293	34.368	249	50.04	60	38.952	269	50.24	23	68.77	61	48.27	196
26	61.292	184	51.75	315	34.617	221	49.44	60	39.221	238	50.01	20	69.38	52	50.23	222
Dez. 6	61.476	132	54.90	327	34.838	185	48.84	58	39.459	202	49.81	13	69.90	42	52.45	245
16	[21] 61.608	76	58.17	326	[22] 35.023	143	48.26	51	[24] 39.661	160	49.68	5	[24] 70.32	31	54.90	260
25	61.684	17	61.43	316	35.166	98	47.75	44	39.821	111	49.63	2	70.63	17	57.50	266
35	61.701		64.59		35.264		47.31		39.932		49.65		70.80		60.16	
Mittl. Ort	58.404		66.75		31.105		41.74		35.535		44.20		61.58		51.75	
sec δ, tg δ	1.363		−0.927		1.034		+0.264		1.083		+0.415		2.835		+2.653	

Tag	240) ζ Canis maj. AR.		Dekl.	
1929	6h 17m		−30° 1′	
	s		″	
Jan. 0	36.119	32	48.22	273
10	36.151	21	50.95	252
20	36.130	71	53.47	224
30	36.059	118	55.71	190
Febr. 9	35.941	157	57.61	153
19	35.784	189	59.14	113
März 1	35.595	211	60.27	71
11	35.384	223	60.98	28
21	35.161	223	61.26	14
31	34.938	214	61.12	55
Apr. 10	34.724	195	60.57	96
20	34.529	168	59.61	133
30	34.361	134	58.28	169
Mai 10	34.227	96	56.59	200
20	34.131	53	54.59	227
30	34.078	10	52.32	250
Juni 9	34.068	35	49.82	265
19	34.103	78	47.17	275
29	34.181	120	44.42	276
Juli 9	34.301	158	41.66	271
19	34.459	194	38.95	258
29	34.653	225	36.37	235
Aug. 8	34.878	253	34.02	205
18	35.131	275	31.97	168
28	35.406	294	30.29	125
Sept. 7	35.700	307	29.04	75
17	36.007	315	28.29	23
27	36.322	318	28.06	32
Okt. 7	36.640	315	28.38	85
17	36.955	306	29.23	137
27	37.261	291	30.60	184
Nov. 6	37.552	269	32.44	224
16	37.821	240	34.68	255
26	38.061	205	37.23	277
Dez. 6	38.266	163	40.00	291
16	38.429	116	42.91	292
26	38.545	66	45.83	284
35	$_{26}$38.611		48.67	
Mittl. Ort	35.208		50.88	
sec δ, tg δ	1.155		−0.578	

Tag	241) μ Geminorum AR.		Dekl.	
1929	6h 18m		+22° 33′	
	s		″	
Jan. 0	40.423	86	9.88	8
10	40.509	35	9.96	15
20	40.544	17	10.11	22
30	40.527	65	10.33	25
Febr. 9	40.462	107	10.58	26
19	40.355	141	10.84	25
März 1	40.214	165	11.09	22
11	40.049	178	11.31	16
21	39.871	178	11.47	11
31	39.693	169	11.58	5
Apr. 10	39.524	149	11.63	0
20	39.375	120	11.63	3
30	39.255	84	11.60	5
Mai 10	39.171	44	11.55	5
20	39.127	1	11.50	4
30	39.126	42	11.46	1
Juni 9	39.168	86	11.45	3
19	39.254	127	11.48	7
29	39.381	166	11.55	10
Juli 9	39.547	200	11.65	14
19	39.747	230	11.79	15
29	39.977	256	11.94	16
Aug. 8	40.233	278	12.10	14
18	40.511	296	12.24	11
28	40.807	309	12.35	6
Sept. 7	41.116	320	12.41	0
17	41.436	326	12.41	8
27	41.762	330	12.33	15
Okt. 7	42.092	329	12.18	22
17	42.421	323	11.96	28
27	42.744	314	11.68	30
Nov. 6	43.058	298	11.38	31
16	43.356	276	11.07	29
26	43.632	246	10.78	24
Dez. 6	43.878	210	10.54	17
16	44.088	168	10.37	9
26	44.256	120	10.28	0
35	$_{26}$44.376		10.28	
Mittl. Ort	39.955		5.78	
sec δ, tg δ	1.083		+0.415	

Tag	242) ψ¹ Aurigae AR.		Dekl.	
1929	6h 19m		+49° 19′	
	s		″	
Jan. 0	26.754	104	39.10	168
10	26.858	32	40.78	169
20	26.890	39	42.47	161
30	26.851	105	44.08	147
Febr. 9	26.746	164	45.55	128
19	26.582	211	46.83	102
März 1	26.371	244	47.85	72
11	26.127	262	48.57	40
21	25.865	263	48.97	7
31	25.602	252	49.04	25
Apr. 10	25.350	223	48.79	56
20	25.127	185	48.23	83
30	24.942	136	47.40	106
Mai 10	24.806	80	46.34	124
20	24.726	21	45.10	137
30	24.705	41	43.73	145
Juni 9	24.746	101	42.28	148
19	24.847	160	40.80	147
29	25.007	215	39.33	141
Juli 9	25.222	265	37.92	133
19	25.487	309	36.59	121
29	25.796	347	35.38	108
Aug. 8	26.143	380	34.30	93
18	26.523	406	33.37	77
28	26.929	426	32.60	59
Sept. 7	27.355	442	32.01	42
17	27.797	451	31.59	22
27	28.248	456	31.37	3
Okt. 7	28.704	454	31.34	17
17	29.158	446	31.51	38
27	29.604	430	31.89	60
Nov. 6	30.034	407	32.49	81
16	30.441	373	33.30	103
26	30.814	331	34.33	123
Dez. 6	31.145	279	35.56	141
16	31.424	219	36.97	154
26	31.643	151	38.51	163
35	$_{26}$31.794		40.14	
Mittl. Ort	25.930		34.02	
sec δ, tg δ	1.534		+1.164	

Tag	243) β Canis maj. AR.		Dekl.	
1929	6h 19m		−17° 54′	
	s		″	
Jan. 0	35.037	51	67.29	223
10	35.088	2	69.52	204
20	35.090	45	71.56	179
30	35.045	89	73.35	152
Febr. 9	34.956	128	74.87	121
19	34.828	158	76.08	88
März 1	34.670	179	76.96	55
11	34.491	191	77.51	21
21	34.300	191	77.72	13
31	34.109	184	77.59	46
Apr. 10	33.925	165	77.13	78
20	33.760	139	76.35	108
30	33.621	108	75.27	137
Mai 10	33.513	71	73.90	162
20	33.442	32	72.28	185
30	33.410	9	70.43	203
Juni 9	33.419	50	68.40	217
19	33.469	90	66.23	226
29	33.559	127	63.97	228
Juli 9	33.686	162	61.69	224
19	33.848	193	59.45	213
29	34.041	220	57.32	194
Aug. 8	34.261	244	55.38	171
18	34.505	263	53.67	139
28	34.768	279	52.28	103
Sept. 7	35.047	290	51.25	61
17	35.337	298	50.64	18
27	35.635	301	50.46	29
Okt. 7	35.936	300	50.75	74
17	36.236	293	51.49	116
27	36.529	281	52.65	156
Nov. 6	36.810	263	54.21	190
16	37.073	238	56.11	214
26	37.311	208	58.25	233
Dez. 6	37.519	171	60.58	241
16	37.690	130	62.99	241
26	37.820	82	65.40	233
35	$_{20}$37.902		67.73	
Mittl. Ort	34.356		70.26	
sec δ, tg δ	1.051		−0.323	

Tag	244) 8 Monocerotis AR.		244) Dekl.		245) α Argus AR.		245) Dekl.		246) 10 Monocerotis AR.		246) Dekl.		247) 8 Lyncis AR.		247) Dekl.	
1929	6h 19m	Δ	+4° 37′	Δ	6h 22m	Δ	−52° 38′	Δ	6h 24m	Δ	−4° 42′	Δ	6h 31m	Δ	+61° 32′	Δ
Jan. 0	60.847	74	52.25	102	24.301	21	79.92	336	27.751	70	57.77	157	13.76	14	49.96	230
10	60.921	27	51.23	89	24.280	93	83.28	313	27.821	22	59.34	141	13.90	4	52.26	230
20	60.948	22	50.34	74	24.187	159	86.41	282	27.843	24	60.75	122	13.94	6	54.56	221
30	60.926	65	49.60	58	24.028	221	89.23	244	27.819	68	61.97	101	13.88	14	56.77	202
Febr. 9	60.861	103	49.02	43	23.807	272	91.67	198	27.751	107	62.98	79	13.74	23	58.79	176
19	60.758	135	48.59	28	23.535	313	93.65	151	27.644	138	63.77	55	13.51	30	60.55	142
März 1	60.623	156	48.31	13	23.222	341	95.16	100	27.506	160	64.32	33	13.21	34	61.97	104
11	60.467	168	48.18	0	22.881	357	96.16	47	27.346	172	64.65	11	12.87	37	63.01	61
21	60.299	170	48.18	13	22.524	360	96.63	5	27.174	174	64.76	12	12.50	38	63.62	18
31	60.129	161	48.31	25	22.164	349	96.58	56	27.000	166	64.64	33	12.12	36	63.80	26
Apr. 10	59.968	142	48.56	38	21.815	326	96.02	107	26.834	149	64.31	54	11.76	34	63.54	68
20	59.826	117	48.94	51	21.489	295	94.95	155	26.685	124	63.77	75	11.42	28	62.86	106
30	59.709	84	49.45	63	21.194	252	93.40	197	26.561	93	63.02	94	11.14	23	61.80	139
Mai 10	59.625	47	50.08	75	20.942	203	91.43	237	26.468	57	62.08	113	10.91	15	60.41	166
20	59.578	9	50.83	86	20.739	149	89.06	271	26.411	19	60.95	128	10.76	8	58.75	186
30	59.569	32	51.69	97	20.590	90	86.35	297	26.392	20	59.67	142	10.68	1	56.89	202
Juni 9	59.601	72	52.66	104	20.500	30	83.38	318	26.412	60	58.25	153	10.69	8	54.87	209
19	59.673	110	53.70	111	20.470	31	80.20	330	26.472	97	56.72	160	10.77	17	52.78	212
29	59.783	145	54.81	114	20.501	92	76.90	333	26.569	133	55.12	163	10.94	24	50.66	208
Juli 9	59.928	177	55.95	113	20.593	150	73.57	326	26.702	166	53.49	160	11.18	32	48.58	199
19	60.105	206	57.08	109	20.743	205	70.31	311	26.868	195	51.89	154	11.50	37	46.59	187
29	60.311	231	58.17	100	20.948	256	67.20	285	27.063	220	50.35	141	11.87	44	44.72	170
Aug. 8	60.542	251	59.17	88	21.204	300	64.35	251	27.283	242	48.94	123	12.31	48	43.02	149
18	60.793	268	60.05	71	21.504	339	61.84	207	27.525	260	47.71	101	12.79	52	41.53	127
28	61.061	282	60.76	51	21.843	370	59.77	156	27.785	275	46.70	73	13.31	55	40.26	102
Sept. 7	61.343	292	61.27	28	22.213	393	58.21	99	28.060	286	45.97	43	13.86	58	39.24	74
17	61.635	298	61.55	3	22.606	407	57.22	36	28.346	293	45.54	8	14.44	60	38.50	46
27	61.933	301	61.58	23	23.013	412	56.86	27	28.639	297	45.46	26	15.04	61	38.04	16
Okt. 7	62.234	301	61.35	48	23.425	408	57.13	92	28.936	297	45.72	60	15.65	60	37.88	15
17	62.535	296	60.87	71	23.833	391	58.05	153	29.233	292	46.32	92	16.25	60	38.03	47
27	62.831	286	60.16	91	24.224	366	59.58	211	29.525	283	47.24	121	16.85	58	38.50	80
Nov. 6	63.117	272	59.25	107	24.590	329	61.69	259	29.808	267	48.45	144	17.43	54	39.30	111
16	63.389	250	58.18	118	24.919	283	64.28	300	30.075	247	49.89	162	17.97	50	40.41	142
26	63.639	223	57.00	124	25.202	228	67.28	329	30.322	219	51.51	173	18.47	44	41.83	170
Dez. 6	63.862	189	55.76	124	25.430	165	70.57	347	30.541	185	53.24	177	18.91	37	43.53	194
16	64.051	150	54.52	119	25.595	96	74.04	354	30.726	145	55.01	175	19.28	30	45.47	213
26	64.201	105	53.33	111	25.691	25	77.58	347	30.871	101	56.76	166	19.58	20	47.60	225
35	27 64.306		52.22		27 25.716		81.05		28 30.972		58.42		29 19.78		49.85	
Mittl. Ort	60.370		48.72		22.471		82.88		27.216		61.17		12.37		45.10	
sec δ, tg δ	1.003		+0.081		1.649		−1.311		1.003		−0.083		2.099		+1.845	

Scheinbare Sternörter 1929

Tag	249) ξ² Canis maj. AR.		Dekl.		251) γ Geminorum AR.		Dekl.		250) 51 Aurigae AR.		Dekl.		248) 23 H. Camelop. AR.		Dekl.	
1929	6ʰ 32ᵐ		−22° 54′		6ʰ 33ᵐ		+16° 27′		6ʰ 33ᵐ		+39° 27′		6ʰ 34ᵐ		+79° 38′	
	s		″		s		″		s		″		s		″	
Jan. 0	5.572	57	23.42	250	37.131	97	44.58	33	45.085	116	22.67	109	13.89	22	49.04	305
10	5.629	7	25.92	232	37.228	47	44.25	23	45.201	54	23.76	114	14.11	3	52.09	301
20	5.636	43	28.24	207	37.275	4	44.02	13	45.255	9	24.90	115	14.08	28	55.10	287
30	5.593	88	30.31	178	37.271	52	43.89	3	45.246	67	26.05	109	13.80	50	57.97	260
Febr. 9	5.505	130	32.09	144	37.219	93	43.86	4	45.179	119	27.14	99	13.30	70	60.57	225
19	5.375	162	33.53	109	37.126	129	43.90	10	45.060	162	28.13	84	12.60	87	62.82	181
März 1	5.213	185	34.62	72	36.997	154	44.00	13	44.898	193	28.97	65	11.73	99	64.63	130
11	5.028	199	35.34	35	36.843	169	44.13	14	44.705	212	29.62	43	10.74	107	65.93	75
21	4.829	203	35.69	3	36.674	172	44.27	16	44.493	217	30.05	20	9.67	109	66.68	18
31	4.626	195	35.66	40	36.502	165	44.43	16	44.276	210	30.25	3	8.58	106	66.86	38
Apr. 10	4.431	180	35.26	76	36.337	148	44.59	17	44.066	187	30.22	26	7.52	99	66.48	93
20	4.251	155	34.50	109	36.189	124	44.76	18	43.879	157	29.96	46	6.53	88	65.55	142
30	4.096	125	33.41	141	36.065	91	44.94	20	43.722	118	29.50	63	5.65	73	64.13	185
Mai 10	3.971	89	32.00	170	35.974	54	45.14	22	43.604	73	28.87	77	4.92	56	62.28	221
20	3.882	51	30.30	196	35.920	14	45.36	27	43.531	23	28.10	86	4.36	36	60.07	249
30	3.831	9	28.34	217	35.906	27	45.63	31	43.508	28	27.24	93	4.00	15	57.58	270
Juni 9	3.822	32	26.17	232	35.933	68	45.94	34	43.536	79	26.31	97	3.85	6	54.88	281
19	3.854	72	23.85	242	36.001	108	46.28	38	43.615	128	25.34	96	3.91	27	52.07	286
29	3.926	111	21.43	246	36.109	144	46.66	41	43.743	175	24.38	93	4.18	47	49.21	282
Juli 9	4.037	147	18.97	243	36.253	178	47.07	42	43.918	217	23.45	89	4.65	67	46.39	271
19	4.184	181	16.54	232	36.431	208	47.49	41	44.135	254	22.56	84	5.32	84	43.68	255
29	4.365	210	14.22	213	36.639	234	47.90	38	44.389	287	21.72	76	6.16	101	41.13	232
Aug. 8	4.575	236	12.09	188	36.873	257	48.28	32	44.676	316	20.96	68	7.17	115	38.81	205
18	4.811	259	10.21	155	37.130	275	48.60	23	44.992	339	20.28	61	8.32	127	36.76	173
28	5.070	277	8.66	117	37.405	291	48.83	12	45.331	359	19.67	52	9.59	137	35.03	137
Sept. 7	5.347	291	7.49	72	37.696	303	48.95	1	45.690	373	19.15	44	10.96	144	33.66	100
17	5.638	301	6.77	25	37.999	311	48.96	13	46.063	384	18.71	34	12.40	149	32.66	58
27	5.939	307	6.52	24	38.310	317	48.83	28	46.447	391	18.37	25	13.89	152	32.08	15
Okt. 7	6.246	307	6.76	74	38.627	319	48.55	40	46.838	392	18.12	14	15.41	151	31.93	28
17	6.553	302	7.50	121	38.946	316	48.15	51	47.230	389	17.98	1	16.92	148	32.21	73
27	6.855	292	8.71	165	39.262	309	47.64	61	47.619	379	17.97	12	18.40	141	32.94	117
Nov. 6	7.147	273	10.36	202	39.571	296	47.03	66	47.998	362	18.09	26	19.81	132	34.11	160
16	7.420	250	12.38	231	39.867	276	46.37	67	48.360	337	18.35	43	21.13	119	35.71	200
26	7.670	219	14.69	253	40.143	249	45.70	66	48.697	304	18.78	59	22.32	103	37.71	235
Dez. 6	7.889	181	17.22	264	40.392	216	45.04	61	49.001	263	19.37	75	23.35	84	40.06	265
16	8.070	138	19.86	267	40.608	175	44.43	53	49.264	212	20.12	89	24.19	62	42.71	288
26	30 8.208	90	22.53	261	30 40.783	130	43.90	43	30 49.476	156	21.01	101	30 24.81	38	45.59	300
35	8.298		25.14		40.913		43.47		49.632		22.02		25.19		48.59	
Mittl. Ort	4.813		27.01		36.665		40.74		44.446		18.46		8.95		43.90	
sec δ, tg δ	1.086		−0.423		1.043		+0.295		1.295		+0.823		5.564		+5.473	

Tag	252) ν Argus				253) *S* Monocerotis				254) ε Geminorum				256) ξ Geminorum			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
1929	$6^h\ 35^m$		$-43°\ 7'$		$6^h\ 37^m$		$+9°\ 57'$		$6^h\ 39^m$		$+25°\ 12'$		$6^h\ 41^m$		$+12°\ 58'$	
Jan. 0*)	$36^s.610$	26	55.03	323	$^{0}\ 4^s.595$	95	49.85	75	$^{0}\ 34^s.425$	110	14.58	20	$^{1}\ 18^s.788$	101	28.38	58
10	36.636	35	58.26	303	4.690	46	49.10	62	34.535	57	14.78	29	18.889	52	27.80	46
20	36.601	94	61.29	275	4.736	4	48.48	48	34.592	3	15.07	37	18.941	2	27.34	33
30	36.507	149	64.04	240	4.732	49	48.00	36	34.595	49	15.44	41	18.943	46	27.01	21
Feb. 9	36.358	196	66.44	199	4.683	91	47.64	23	34.546	94	15.85	43	18.897	88	26.80	11
19	36.162	235	68.43	154	4.592	126	47.41	12	34.452	131	16.28	40	18.809	124	26.69	2
März 1	35.927	262	69.97	108	4.466	150	47.29	2	34.321	160	16.68	35	18.685	149	26.67	5
11	35.665	278	71.05	58	4.316	165	47.27	7	34.161	177	17.03	29	18.536	165	26.72	11
21	35.387	283	71.63	9	4.151	169	47.34	14	33.984	181	17.32	21	18.371	170	26.83	15
31	35.104	276	71.72	39	3.982	162	47.48	21	33.803	176	17.53	12	18.201	164	26.98	20
Apr. 10	34.828	259	71.33	87	3.820	148	47.69	28	33.627	158	17.65	3	18.037	149	27.18	23
20	34.569	233	70.46	132	3.672	123	47.97	36	33.469	133	17.68	4	17.888	126	27.41	28
30	34.336	198	69.14	174	3.549	92	48.33	43	33.336	100	17.64	9	17.762	94	27.69	32
Mai 10	34.138	158	67.40	211	3.457	57	48.76	50	33.236	61	17.55	14	17.668	60	28.01	37
20	33.980	112	65.29	245	3.400	19	49.26	58	33.175	20	17.41	16	17.608	21	28.38	42
30	33.868	64	62.84	272	3.381	21	49.84	64	33.155	24	17.25	17	17.587	19	28.80	47
Juni 9	33.804	14	60.12	293	3.402	61	50.48	71	33.179	67	17.08	16	17.606	58	29.27	53
19	33.790	37	57.19	307	3.463	99	51.19	75	33.246	109	16.92	15	17.664	97	29.80	56
29	33.827	86	54.12	311	3.562	134	51.94	77	33.355	148	16.77	13	17.761	134	30.36	58
Juli 9	33.913	134	51.01	308	3.696	168	52.71	78	33.503	184	16.64	11	17.895	166	30.94	58
19	34.047	179	47.93	295	3.864	197	53.49	75	33.687	216	16.53	9	18.061	197	31.52	56
29	34.226	221	44.98	273	4.061	223	54.24	68	33.903	244	16.44	10	18.258	223	32.08	52
Aug. 8	34.447	257	42.25	242	4.284	246	54.92	59	34.147	269	16.34	11	18.481	246	32.60	42
18	34.704	289	39.83	203	4.530	264	55.51	45	34.416	289	16.23	13	18.727	265	33.02	32
28	34.993	315	37.80	155	4.794	279	55.96	30	34.705	306	16.10	17	18.992	282	33.34	19
Sept. 7	35.308	337	36.25	102	5.073	292	56.26	12	35.011	319	15.93	21	19.274	294	33.53	2
17	35.645	351	35.23	43	5.365	301	56.38	8	35.330	330	15.72	27	19.568	304	33.55	14
27	35.996	359	34.80	17	5.666	308	56.30	29	35.660	336	15.45	31	19.872	311	33.41	32
Okt. 7	36.355	358	34.97	79	5.974	309	56.01	48	35.996	339	15.14	35	20.183	313	33.09	48
17	36.713	349	35.76	138	6.283	307	55.53	67	36.335	338	14.79	38	20.496	313	32.61	63
27	37.062	334	37.14	193	6.590	301	54.86	82	36.673	330	14.41	38	20.809	306	31.98	76
Nov. 6	37.396	308	39.07	241	6.891	288	54.04	93	37.003	318	14.03	35	21.115	295	31.22	84
16	37.704	273	41.48	281	7.179	269	53.11	100	37.321	297	13.68	29	21.410	276	30.38	89
26	37.977	231	44.29	310	7.448	243	52.11	102	37.618	270	13.39	22	21.686	250	29.49	89
Dez. 6	38.208	182	47.39	330	7.691	210	51.09	100	37.888	235	13.17	12	21.936	217	28.60	85
16	38.390	126	50.69	337	7.901	172	50.09	94	38.123	193	13.05	1	22.153	179	27.75	78
26	^{30} 38.516	66	54.06	332	^{31} 8.073	126	49.15	85	^{31} 38.316	145	13.04	10	^{32} 22.332	134	26.97	67
35	38.582		57.38		8.199		48.30		38.461		13.14		22.466		26.30	
Mittl. Ort	35.299		59.05		4.126		46.06		33.926		10.72		18.320		24.57	
sec δ, tg δ	1.370		—0.937		1.015		+0.176		1.105		+0.471		1.026		+0.230	

*) Bei Stern 256) lies Jan. 1

Tag	257) α Canis maj.[1]) AR.		Dekl.		258) 18 Monocerotis AR.		Dekl.		262) α Pictoris AR.		Dekl.		261) ϑ Geminorum AR.		Dekl.	
1929	6h 42m		−16° 36′		6h 44m		+2° 29′		6h 47m		−61° 51′		6h 48m		+34° 2′	
Jan. 1	$_{1}$1.741	70	61.89	228	$_{1}$10.078	95	31.73	122	$_{2}$30.44	1	48.00	357	$_{2}$7.288	128	58.06	73
10	1.811	20	64.17	210	10.173	47	30.51	108	30.43	11	51.57	341	7.416	69	58.79	81
20	1.831	28	66.27	187	10.220	1	29.43	91	30.32	20	54.98	314	7.485	11	59.60	87
30	1.803	74	68.14	160	10.219	47	28.52	74	30.12	28	58.12	279	7.496	46	60.47	87
Feb. 9	1.729	114	69.74	130	10.172	89	27.78	55	29.84	35	60.91	238	7.450	97	61.34	83
19	1.615	147	71.04	98	10.083	123	27.23	38	29.49	40	63.29	191	7.353	139	62.17	74
März 1	1.468	172	72.02	66	9.960	148	26.85	21	29.09	45	65.20	141	7.214	171	62.91	62
11	1.296	185	72.68	33	9.812	164	26.64	5	28.64	47	66.61	88	7.043	191	63.53	47
21	1.111	189	73.01	0	9.648	169	26.59	10	28.17	48	67.49	35	6.852	199	64.00	29
31	0.922	184	73.01	32	9.479	163	26.69	25	27.69	48	67.84	19	6.653	194	64.29	10
Apr. 10	0.738	169	72.69	63	9.316	150	26.94	39	27.21	46	67.65	72	6.459	178	64.39	6
20	0.569	145	72.06	92	9.166	127	27.33	52	26.75	42	66.93	122	6.281	151	64.33	23
30	0.424	116	71.14	119	9.039	98	27.85	66	26.33	39	65.71	170	6.130	117	64.10	37
Mai 10	0.308	82	69.95	145	8.941	65	28.51	79	25.94	33	64.01	213	6.013	76	63.73	48
20	0.226	44	68.50	167	8.876	28	29.30	90	25.61	26	61.88	252	5.937	31	63.25	58
30	0.182	5	66.83	185	8.848	11	30.20	101	25.35	20	59.36	285	5.906	15	62.67	64
Juni 9	0.177	35	64.98	199	8.859	49	31.21	109	25.15	12	56.51	310	5.921	62	62.03	67
19	0.212	74	62.99	209	8.908	86	32.30	115	25.03	5	53.41	328	5.983	107	61.36	68
29	0.286	110	60.90	212	8.994	121	33.45	117	24.98	3	50.13	337	6.090	150	60.68	67
Juli 9	0.396	146	58.78	209	9.115	154	34.62	117	25.01	11	46.76	336	6.240	189	60.01	66
19	0.542	177	56.69	199	9.269	184	35.79	112	25.12	17	43.40	326	6.429	226	59.35	64
29	0.719	205	54.70	184	9.453	210	36.91	102	25.29	25	40.14	305	6.655	257	58.71	60
Aug. 8	0.924	230	52.86	160	9.663	233	37.93	89	25.54	32	37.09	275	6.912	285	58.11	57
18	1.154	251	51.26	132	9.896	253	38.82	72	25.86	37	34.34	234	7.197	308	57.54	54
28	1.405	269	49.94	96	10.149	269	39.54	49	26.23	42	32.00	187	7.505	328	57.00	50
Sept. 7	1.674	284	48.98	57	10.418	282	40.03	25	26.65	47	30.13	130	7.833	343	56.50	47
17	1.958	293	48.41	14	10.700	293	40.28	2	27.12	49	28.83	69	8.176	357	56.03	45
27	2.251	299	48.27	30	10.993	300	40.26	29	27.61	50	28.14	4	8.533	365	55.58	40
Okt. 7	2.550	301	48.57	75	11.293	303	39.97	57	28.11	51	28.10	63	8.898	369	55.18	36
17	2.851	298	49.32	118	11.596	302	39.40	83	28.62	50	28.73	128	9.267	369	54.82	28
27	3.149	289	50.50	157	11.898	296	38.57	106	29.12	46	30.01	189	9.636	363	54.54	19
Nov. 6	3.438	274	52.07	189	12.194	284	37.51	123	29.58	42	31.90	244	9.999	350	54.35	8
16	3.712	252	53.96	216	12.478	266	36.28	136	30.00	37	34.34	290	10.349	329	54.27	4
26	3.964	224	56.12	234	12.744	240	34.92	143	30.37	30	37.24	327	10.678	300	54.31	19
Dez. 6	4.188	188	58.46	244	12.984	209	33.49	145	30.67	22	40.51	352	10.978	263	54.50	35
16	4.376	148	60.90	244	13.193	171	32.04	141	30.89	13	44.03	365	11.241	217	54.85	49
26	$_{32}$4.524	102	63.34	239	$_{33}$13.364	127	30.63	132	$_{33}$31.02	4	47.68	365	$_{34}$11.458	166	55.34	64
35	4.626		65.73		13.491		29.31		31.06		51.33		11.624		55.98	
Mittl. Ort	1.085		65.71		9.586		27.84		27.85		53.54		6.708		54.37	
sec δ, tg δ	1.044		−.0298		1.001		+0.044		2.121		−1.870		1.207		+0.676	

[1]) Ort des Hauptsterns; die jährliche Parallaxe (0.″38) ist bereits berücksichtigt.

Tag	266) ϑ Canis maj.				265) 15 Lyncis				268) ε Canis maj.				269) ζ Geminorum			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
1929	$6^h\ 50^m$		$-11°\ 56'$		$6^h\ 51^m$		$+58°\ 30'$		$6^h\ 55^m$		$-28°\ 52'$		$6^h\ 59^m$		$+20°\ 40'$	
	s		"		s		"		s		"		s		"	
Jan. 1	3 54.071	89	50.40	205	3 9.337	170	68.45	212	4 50.935	75	22.98	285	5 54.457	127	36.96	15
10	54.160	40	52.45	189	9.507	80	70.57	217	51.010	21	25.83	268	54.584	75	36.81	2
20	54.200	10	54.34	169	9.587	11	72.74	213	51.031	31	28.51	245	54.659	22	36.79	10
30	54.190	56	56.03	143	9.576	97	74.87	202	51.000	82	30.96	215	54.681	29	36.89	19
Feb. 9	54.134	97	57.46	117	9.479	175	76.89	181	50.918	125	33.11	180	54.652	75	37.08	25
19	54.037	132	58.63	89	9.304	241	78.70	153	50.793	163	34.91	143	54.577	115	37.33	30
März 1	53.905	157	59.52	60	9.063	291	80.23	119	50.630	191	36.34	103	54.462	145	37.63	30
11	53.748	174	60.12	31	8.772	323	81.42	81	50.439	209	37.37	63	54.317	164	37.93	29
21	53.574	180	60.43	3	8.449	337	82.23	41	50.230	216	38.00	21	54.153	173	38.22	27
31	53.394	177	60.46	26	8.112	332	82.64	1	50.014	213	38.21	20	53.980	171	38.49	22
Apr. 10	53.217	163	60.20	53	7.780	308	82.63	42	49.801	201	38.01	60	53.809	158	38.71	18
20	53.054	142	59.67	79	7.472	271	82.21	79	49.600	181	37.41	99	53.651	136	38.89	13
30	52.912	115	58.88	104	7.201	220	81.42	113	49.419	152	36.42	134	53.515	107	39.02	10
Mai 10	52.797	83	57.84	126	6.981	159	80.29	142	49.267	119	35.08	168	53.408	73	39.12	8
20	52.714	47	56.58	147	6.822	92	78.87	165	49.148	82	33.40	197	53.335	34	39.20	7
30	52.667	9	55.11	164	6.730	19	77.22	183	49.066	42	31.43	222	53.301	5	39.27	6
Juni 9	52.658	29	53.47	177	6.711	53	75.39	194	49.024	0	29.21	242	53.306	46	39.33	7
19	52.687	66	51.70	187	6.764	125	73.45	200	49.024	40	26.79	255	53.352	86	39.40	7
29	52.753	103	49.83	191	6.889	195	71.45	201	49.064	81	24.24	262	53.438	123	39.47	7
Juli 9	52.856	137	47.92	189	7.084	260	69.44	197	49.145	120	21.62	261	53.561	158	39.54	7
19	52.993	167	46.03	182	7.344	319	67.47	188	49.265	156	19.01	253	53.719	190	39.61	6
29	53.160	195	44.21	169	7.663	373	65.59	176	49.421	190	16.48	235	53.909	219	39.67	2
Aug. 8	53.355	221	42.52	149	8.036	419	63.83	161	49.611	220	14.13	211	54.128	244	39.69	2
18	53.576	243	41.03	123	8.455	460	62.22	142	49.831	247	12.02	180	54.372	265	39.67	9
28	53.819	261	39.80	92	8.915	494	60.80	122	50.078	271	10.22	138	54.637	285	39.58	17
Sept. 7	54.080	276	38.88	56	9.409	522	59.58	98	50.349	289	8.84	92	54.922	300	39.41	26
17	54.356	288	38.32	17	9.931	542	58.60	72	50.638	305	7.92	42	55.222	313	39.15	36
27	54.644	297	38.15	24	10.473	556	57.88	46	50.943	315	7.50	11	55.535	324	38.79	45
Okt. 7	54.941	301	38.39	64	11.029	561	57.42	18	51.258	320	7.61	64	55.859	330	38.34	54
17	55.242	300	39.03	104	11.590	559	57.24	13	51.578	318	8.25	116	56.189	330	37.80	62
27	55.542	294	40.07	139	12.149	547	57.37	44	51.896	311	9.41	166	56.519	328	37.18	65
Nov. 6	55.836	282	41.46	169	12.696	524	57.81	76	52.207	295	11.07	208	56.847	319	36.53	67
16	56.118	263	43.15	194	13.220	488	58.57	107	52.502	272	13.15	244	57.166	301	35.86	65
26	56.381	237	45.09	211	13.708	440	59.64	137	52.774	242	15.59	271	57.467	278	35.21	59
Dez. 6	56.618	203	47.20	220	14.148	381	61.01	164	53.016	204	18.30	289	57.745	246	34.62	50
16	56.821	165	49.40	221	14.529	309	62.65	186	53.220	159	21.19	296	57.991	207	34.12	38
26	34 56.986	120	51.61	215	34 14.838	228	64.51	201	53.379	109	24.15	293	58.198	161	33.74	26
35*)	57.106		53.76		15.066		66.52		53.488		27.08		58.359		33.48	
Mittl. Ort	53.477		54.73		8.078		64.78		50.082		28.10		53.972		33.36	
sec δ, tg δ	1.022		−0.212		1.915		+1.633		1.142		−0.551		1.069		+0.377	

*) Bei Stern 268) und 269) lies Dez. 36

Scheinbare Sternörter 1929

Tag	271) γ Canis maj. AR.		271) γ Canis maj. Dekl.		273) δ Canis maj. AR.		273) δ Canis maj. Dekl.		274) 63 Aurigae AR.		274) 63 Aurigae Dekl.		277) λ Geminorum AR.		277) λ Geminorum Dekl.	
1929	7h 0m		−15° 31′		7h 5m		−26° 16′		7h 6m		+39° 26′		7h 14m		+16° 40′	
	s		″		s		″		s		″		s		″	
Jan. 1	6 33.439	95	33.43	227	7 31.009	89	40.55	278	7 47.190	158	20.02	100	9 1.319	138	14.86	45
10	33.534	45	35.70	211	31.098	36	43.33	262	47.348	95	21.02	111	1.457	86	14.41	30
20	33.579	4	37.81	190	31.134	17	45.95	240	47.443	31	22.13	118	1.543	34	14.11	17
30	33.575	52	39.71	164	31.117	67	48.35	211	47.474	31	23.31	119	1.577	16	13.94	3
Feb. 9	33.523	96	41.35	136	31.050	111	50.46	179	47.443	88	24.50	114	1.561	63	13.91	8
19	33.427	130	42.71	105	30.939	149	52.25	143	47.355	136	25.64	103	1.498	103	13.99	15
März 1	33.297	158	43.76	74	30.790	179	53.68	105	47.219	173	26.67	88	1.395	135	14.14	21
11	33.139	176	44.50	43	30.611	197	54.73	66	47.046	200	27.55	69	1.260	156	14.35	25
21	32.963	184	44.93	11	30.414	206	55.39	27	46.846	211	28.24	46	1.104	167	14.60	26
31	32.779	182	45.04	20	30.208	205	55.66	12	46.635	211	28.70	23	0.937	166	14.86	26
Apr. 10	32.597	170	44.84	50	30.003	195	55.54	51	46.424	197	28.93	1	0.771	156	15.12	25
20	32.427	151	44.34	79	29.808	176	55.03	88	46.227	173	28.92	24	0.615	138	15.37	26
30	32.276	124	43.55	107	29.632	150	54.15	122	46.054	140	28.68	44	0.477	112	15.63	24
Mai 10	32.152	93	42.48	132	29.482	118	52.93	155	45.914	100	28.24	62	0.365	80	15.87	24
20	32.059	59	41.16	154	29.364	82	51.38	183	45.814	54	27.62	77	0.285	44	16.11	25
30	32.000	21	39.62	174	29.282	44	49.55	208	45.760	7	26.85	88	0.241	7	16.36	26
Juni 9	31.979	17	37.88	189	29.238	5	47.47	228	45.753	41	25.97	96	0.234	32	16.62	26
19	31.996	54	35.99	199	29.233	35	45.19	242	45.794	90	25.01	102	0.266	70	16.88	27
29	32.050	90	34.00	205	29.268	75	42.77	249	45.884	136	23.99	104	0.336	106	17.15	27
Juli 9	32.140	125	31.95	204	29.343	112	40.28	249	46.020	178	22.95	105	0.442	140	17.42	25
19	32.265	157	29.91	197	29.455	147	37.79	242	46.198	218	21.90	103	0.582	172	17.67	22
29	32.422	187	27.94	183	29.602	180	35.37	226	46.416	254	20.87	100	0.754	200	17.89	17
Aug. 8	32.609	213	26.11	162	29.782	211	33.11	203	46.670	285	19.87	96	0.954	226	18.06	10
18	32.822	237	24.49	136	29.993	237	31.08	173	46.955	313	18.91	91	1.180	248	18.16	0
28	33.059	256	23.13	104	30.230	261	29.35	135	47.268	337	18.00	85	1.428	269	18.16	11
Sept. 7	33.315	274	22.09	65	30.491	282	28.00	92	47.605	357	17.15	79	1.697	286	18.05	24
17	33.589	288	21.44	24	30.773	297	27.08	43	47.962	374	16.36	71	1.983	301	17.81	38
27	33.877	298	21.20	19	31.070	309	26.65	7	48.336	386	15.65	62	2.284	313	17.43	52
Okt. 7	34.175	304	21.39	63	31.379	316	26.72	60	48.722	395	15.03	52	2.597	321	16.91	65
17	34.479	304	22.02	106	31.695	317	27.32	111	49.117	398	14.51	39	2.918	325	16.26	76
27	34.783	299	23.08	145	32.012	311	28.43	158	49.515	394	14.12	24	3.243	324	15.50	85
Nov. 6	35.082	288	24.53	178	32.323	298	30.01	200	49.909	383	13.88	8	3.567	318	14.65	90
16	35.370	270	26.31	206	32.621	277	32.01	236	50.292	364	13.80	11	3.885	303	13.75	91
26	35.640	244	28.37	226	32.898	249	34.37	263	50.656	336	13.91	32	4.188	281	12.84	87
Dez. 6	35.884	211	30.63	237	33.147	214	37.00	279	50.992	298	14.23	51	4.469	252	11.97	80
16	36.095	172	33.00	241	33.361	171	39.79	288	51.290	252	14.74	71	4.721	214	11.17	69
26	36.267	127	35.41	236	33.532	122	42.67	285	51.542	197	15.45	89	4.935	170	10.48	56
36	36.394		37.77		33.654		45.52		51.739		16.34		5.105		9.92	
Mittl. Ort	32.812		38.27		30.223		46.12		46.523		17.02		0.850		11.27	
sec δ, tg δ	1.038		−0.278		1.115		−0.494		1.295		+0.823		1.044		+0.300	

Tag	278) π Argus				279) δ Geminorum				281) δ Volantis				280) 19 Lyncis seq.			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
1929	7h 14m		−36° 57′		7h 15m		+22° 6′		7h 16m		−67° 49′		7h 17m		+55° 24′	
Jan. 1	9 39.081	87	62.18	320	9 53.588	145	55.81	11	10 55.70	2	29.97	371	10 6.038	207	63.84	187
10	39.168	28	65.38	307	53.733	93	55.70	4	55.72	10	33.68	361	6.245	124	65.71	200
20	39.196	30	68.45	284	53.826	39	55.74	16	55.62	21	37.29	342	6.369	39	67.71	203
30	39.166	84	71.29	255	53.865	15	55.90	27	55.41	31	40.71	313	6.408	45	69.74	198
Feb. 9	39.082	134	73.84	220	53.850	62	56.17	35	55.10	40	43.84	277	6.363	121	71.72	185
19	38.948	176	76.04	181	53.788	105	56.52	38	54.70	48	46.61	235	6.242	188	73.57	165
März 1	38.772	208	77.85	139	53.683	137	56.90	40	54.22	54	48.96	187	6.054	240	75.22	138
11	38.564	230	79.24	94	53.546	160	57.30	38	53.68	58	50.83	137	5.814	278	76.60	104
21	38.334	242	80.18	49	53.386	171	57.68	33	53.10	60	52.20	85	5.536	299	77.64	67
31	38.092	243	80.67	3	53.215	172	58.01	28	52.50	61	53.05	31	5.237	301	78.31	29
Apr. 10	37.849	234	80.70	42	53.043	162	58.29	22	51.89	60	53.36	22	4.936	288	78.60	10
20	37.615	216	80.28	85	52.881	143	58.51	16	51.29	58	53.14	75	4.648	260	78.50	48
30	37.399	190	79.43	127	52.738	116	58.67	10	50.71	53	52.39	126	4.388	220	78.02	82
Mai 10	37.209	157	78.16	165	52.622	83	58.77	5	50.18	48	51.13	173	4.168	169	77.20	112
20	37.052	121	76.51	199	52.539	46	58.82	1	49.70	41	49.40	216	3.999	111	76.08	139
30	36.931	80	74.52	230	52.493	8	58.83	1	49.29	34	47.24	255	3.888	49	74.69	160
Juni 9	36.851	37	72.22	253	52.485	32	58.82	3	48.95	25	44.69	286	3.839	16	73.09	176
19	36.814	6	69.69	272	52.517	71	58.79	4	48.70	16	41.83	310	3.855	80	71.33	186
29	36.820	50	66.97	282	52.588	109	58.75	5	48.54	7	38.73	327	3.935	144	69.47	192
Juli 9	36.870	92	64.15	285	52.697	144	58.70	8	48.47	3	35.46	333	4.079	203	67.55	194
19	36.962	134	61.30	278	52.841	177	58.62	10	48.50	13	32.13	329	4.282	259	65.61	191
29	37.096	172	58.52	263	53.018	206	58.52	13	48.63	22	28.84	317	4.541	310	63.70	184
Aug. 8	37.268	209	55.89	239	53.224	233	58.39	19	48.85	30	25.67	293	4.851	357	61.86	174
18	37.477	242	53.50	207	53.457	257	58.20	25	49.15	39	22.74	259	5.208	397	60.12	160
28	37.719	271	51.43	166	53.714	277	57.95	32	49.54	47	20.15	215	5.605	433	58.52	145
Sept. 7	37.990	296	49.77	119	53.991	296	57.63	41	50.01	52	18.00	164	6.038	464	57.07	127
17	38.286	317	48.58	65	54.287	311	57.22	50	50.53	57	16.36	106	6.502	488	55.80	106
27	38.603	332	47.93	10	54.598	323	56.72	58	51.10	61	15.30	41	6.990	507	54.74	82
Okt. 7	38.935	340	47.83	50	54.921	332	56.14	66	51.71	62	14.89	25	7.497	520	53.92	57
17	39.275	342	48.33	106	55.253	337	55.48	71	52.33	62	15.14	91	8.017	524	53.35	30
27	39.617	336	49.39	162	55.590	337	54.77	74	52.95	59	16.05	156	8.541	521	53.05	1
Nov. 6	39.953	322	51.01	212	55.927	329	54.03	74	53.54	54	17.61	215	9.062	506	53.06	32
16	40.275	298	53.13	254	56.256	315	53.29	70	54.08	49	19.76	268	9.568	481	53.38	63
26	40.573	266	55.67	287	56.571	293	52.59	61	54.57	40	22.44	311	10.049	443	54.01	96
Dez. 6	40.839	225	58.54	311	56.864	262	51.98	51	54.97	31	25.55	343	10.492	393	54.97	126
16	41.064	178	61.65	324	57.126	224	51.47	38	55.28	20	28.98	364	10.885	332	56.23	152
26	41.242	124	64.89	327	57.350	179	51.09	23	55.48	9	32.62	374	11.217	259	57.75	174
36	41.366		68.16		57.529		50.86		55.57		36.36		11.476		59.49	
Mittl. Ort	38.061		68.94		53.100		52.50		52.38		38.63		4.902		61.61	
sec δ, tg δ	1.252		−0.753		1.079		+0.406		2.650		−2.454		1.762		+1.450	

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Tag	282) ι Geminorum AR.		Dekl.		285) β Canis min. AR.		Dekl.	
1929	$7^h\ 21^m$		$+27°\ 56'$		$7^h\ 23^m$		$+8°\ 25'$	
	s		"		s		"	
Jan. 1	19.725	158	29.53	23	18.560	139	65.34	99
11	19.883	103	29.76	40	18.699	89	64.35	84
20	19.986	46	30.16	50	18.788	39	63.51	67
30	20.032	9	30.66	59	18.827	11	62.84	51
Feb. 9	20.023	61	31.25	63	18.816	57	62.33	34
19	19.962	106	31.88	64	18.759	96	61.99	19
März 1	19.856	141	32.52	61	18.663	127	61.80	6
11	19.715	165	33.13	53	18.536	149	61.74	6
21	19.550	179	33.66	44	18.387	161	61.80	16
31	19.371	180	34.10	32	18.226	162	61.96	24
Apr. 10	19.191	171	34.42	19	18.064	154	62.20	32
20	19.020	152	34.61	7	17.910	138	62.52	38
30	18.868	125	34.68	4	17.772	113	62.90	46
Mai 10	18.743	92	34.64	14	17.659	85	63.36	53
20	18.651	54	34.50	23	17.574	51	63.89	58
30	18.597	13	34.27	29	17.523	16	64.47	64
Juni 9	18.584	27	33.98	35	17.507	20	65.11	67
19	18.611	69	33.63	39	17.527	56	65.78	71
29	18.680	108	33.24	41	17.583	90	66.49	72
Juli 9	18.788	145	32.83	44	17.673	124	67.21	70
19	18.933	179	32.39	46	17.797	154	67.91	66
29	19.112	211	31.93	49	17.951	183	68.57	58
Aug. 8	19.323	239	31.44	51	18.134	208	69.15	47
18	19.562	265	30.93	55	18.342	232	69.62	34
28	19.827	287	30.38	58	18.574	252	69.96	16
Sept. 7	20.114	307	29.80	62	18.826	270	70.12	4
17	20.421	323	29.18	65	19.096	286	70.08	25
27	20.744	337	28.53	69	19.382	299	69.83	47
Okt. 7	21.081	348	27.84	70	19.681	308	69.36	69
17	21.429	352	27.14	69	19.989	315	68.67	89
27	21.781	353	26.45	67	20.304	315	67.78	106
Nov. 6	22.134	347	25.78	60	20.619	309	66.72	119
16	22.481	332	25.18	50	20.928	296	65.53	128
26	22.813	311	24.68	37	21.224	276	64.25	130
Dez. 6	23.124	279	24.31	23	21.500	248	62.95	129
16	23.403	239	24.08	6	21.748	213	61.66	121
26	23.642	193	24.02	11	21.961	170	60.45	110
36	23.835		24.13		22.131		59.35	
Mittl. Ort	19.200		26.60		18.104		61.31	
sec δ, tg δ	1.132		+0.530		1.011		+0.148	

Tag	284) Grb 1308 AR.		Dekl.		286) ρ Geminorum AR.		Dekl.	
1929	$7^h\ 23^m$		$+68°\ 36'$		$7^h\ 24^m$		$+31°\ 55'$	
	s		"		s		"	
Jan. 1	32.73	31	48.97	250	33.431	167	41.05	48
11	33.04	15	51.47	261	33.598	111	41.53	63
20	33.19	3	54.08	262	33.709	51	42.16	75
30	33.22	9	56.70	254	33.760	7	42.91	82
Feb. 9	33.13	21	59.24	235	33.753	60	43.73	85
19	32.92	31	61.59	208	33.693	107	44.58	83
März 1	32.61	39	63.67	171	33.586	144	45.41	75
11	32.22	45	65.38	127	33.442	171	46.16	65
21	31.77	49	66.65	83	33.271	185	46.81	51
31	31.28	50	67.48	32	33.086	188	47.32	36
Apr. 10	30.78	48	67.80	17	32.898	178	47.68	19
20	30.30	45	67.63	65	32.720	160	47.87	3
30	29.85	39	66.98	108	32.560	133	47.90	13
Mai 10	29.46	31	65.90	149	32.427	98	47.77	27
20	29.15	23	64.41	182	32.329	59	47.50	37
30	28.92	14	62.59	210	32.270	18	47.13	48
Juni 9	28.78	4	60.49	231	32.252	25	46.65	55
19	28.74	6	58.18	246	32.277	67	46.10	61
29	28.80	16	55.72	254	32.344	108	45.49	65
Juli 9	28.96	25	53.18	255	32.452	147	44.84	68
19	29.21	35	50.63	252	32.599	183	44.16	69
29	29.56	43	48.11	242	32.782	216	43.47	72
Aug. 8	29.99	50	45.69	228	32.998	246	42.75	72
18	30.49	58	43.41	209	33.244	273	42.03	74
28	31.07	63	41.32	186	33.517	296	41.29	74
Sept. 7	31.70	68	39.46	159	33.813	317	40.55	76
17	32.38	73	37.87	129	34.130	335	39.79	76
27	33.11	75	36.58	96	34.465	350	39.03	75
Okt. 7	33.86	78	35.62	60	34.815	361	38.28	72
17	34.64	78	35.02	21	35.176	367	37.56	67
27	35.42	78	34.81	19	35.543	367	36.89	60
Nov. 6	36.20	75	35.00	60	35.910	362	36.29	50
16	36.95	71	35.60	102	36.272	347	35.79	36
26	37.66	65	36.62	141	36.619	324	35.43	20
Dez. 6	38.31	58	38.03	178	36.943	293	35.23	2
16	38.89	48	39.81	210	37.236	252	35.21	16
26	39.37	36	41.91	235	37.488	203	35.37	35
36	39.73		44.26		37.691		35.72	
Mittl. Ort	30.55		47.25		32.868		38.41	
sec δ, tg δ	2.742		+2.553		1.178		+0.623	

Tag	287) α Geminorum [1] AR.		Dekl.		289) 25 Monocerotis AR.		Dekl.		291) α Canis min. [2] AR.		Dekl.		292) 24 Lyncis AR.		Dekl.	
1929	7h 30m		+32° 2′		7h 33m		−3° 56′		7h 35m		+5° 24′		7h 36m		+58° 52′	
Jan. 1	4.847	173	48.80	45	45.407	138	59.41	175	35.684	143	34.23	124	61.939	256	43.41	197
11	5.020	116	49.25	62	45.545	89	61.16	161	35.827	94	32.99	108	62.195	165	45.38	213
20	[13] 5.136	57	49.87	74	[14] 45.634	39	62.77	142	[14] 35.921	44	31.91	90	[15] 62.360	72	47.51	221
30	5.193	1	50.61	83	45.673	10	64.19	121	35.965	6	31.01	71	62.432	20	49.72	219
Feb. 9	5.192	56	51.44	86	45.663	55	65.40	98	35.959	51	30.30	53	62.412	106	51.91	209
19	5.136	103	52.30	84	45.608	95	66.38	74	35.908	92	29.77	35	62.306	184	54.00	189
März 1	5.033	141	53.14	78	45.513	126	67.12	52	35.816	124	29.42	19	62.122	246	55.89	163
11	4.892	169	53.92	68	45.387	149	67.64	29	35.692	146	29.23	4	61.876	293	57.52	129
21	4.723	184	54.60	54	45.238	162	67.93	8	35.546	160	29.19	9	61.583	323	58.81	91
31	4.539	188	55.14	38	45.076	165	68.01	13	35.386	162	29.28	21	61.260	332	59.72	50
Apr. 10	4.351	181	55.52	21	44.911	158	67.88	33	35.224	155	29.49	31	60.928	326	60.22	8
20	4.170	162	55.73	5	44.753	144	67.55	52	35.069	140	29.80	41	60.602	302	60.30	33
30	4.008	135	55.78	11	44.609	122	67.03	70	34.929	118	30.21	50	60.300	264	59.97	72
Mai 10	3.873	103	55.67	25	44.487	96	66.33	86	34.811	90	30.71	58	60.036	214	59.25	108
20	3.770	65	55.42	37	44.391	65	65.47	101	34.721	58	31.29	66	59.822	156	58.17	140
30	3.705	23	55.05	48	44.326	32	64.46	114	34.663	25	31.95	72	59.666	92	56.77	165
Juni 9	3.682	18	54.57	56	44.294	3	63.32	125	34.638	11	32.67	77	59.574	24	55.12	186
19	3.700	61	54.01	63	44.297	37	62.07	132	34.649	45	33.44	81	59.550	46	53.26	202
29	3.761	102	53.38	67	44.334	71	60.75	137	34.694	80	34.25	82	59.596	113	51.24	212
Juli 9	3.863	141	52.71	71	44.405	103	59.38	136	34.774	113	35.07	80	59.709	180	49.12	218
19	4.004	176	52.00	74	44.508	135	58.02	131	34.887	143	35.87	74	59.889	242	46.94	217
29	4.180	210	51.26	76	44.643	163	56.71	122	35.030	171	36.61	67	60.131	300	44.77	214
Aug. 8	4.390	240	50.50	77	44.806	190	55.49	106	35.201	197	37.28	54	60.431	354	42.63	205
18	4.630	267	49.73	79	44.996	214	54.43	87	35.398	221	37.82	38	60.785	402	40.58	193
28	4.897	292	48.94	81	45.210	236	53.56	62	35.619	243	38.20	19	61.187	446	38.65	178
Sept. 7	5.189	314	48.13	81	45.446	257	52.94	34	35.862	261	38.39	3	61.633	483	36.87	160
17	5.503	332	47.32	82	45.703	274	52.60	2	36.123	279	38.36	27	62.116	515	35.27	137
27	5.835	348	46.50	81	45.977	289	52.58	31	36.402	293	38.09	51	62.631	542	33.90	113
Okt. 7	6.183	360	45.69	78	46.266	299	52.89	65	36.695	303	37.58	77	63.173	561	32.77	84
17	6.543	367	44.91	74	46.565	307	53.54	97	36.998	311	36.81	99	63.734	570	31.93	54
27	6.910	368	44.17	65	46.872	309	54.51	127	37.309	312	35.82	119	64.304	571	31.39	21
Nov. 6	7.278	363	43.52	55	47.181	303	55.78	153	37.621	308	34.63	137	64.875	561	31.18	14
16	7.641	351	42.97	42	47.484	292	57.31	172	37.929	296	33.26	147	65.436	538	31.32	51
26	7.992	328	42.55	25	47.776	273	59.03	186	38.225	278	31.79	152	65.974	502	31.83	87
Dez. 6	8.320	297	42.30	6	48.049	245	60.89	192	38.503	250	30.27	152	66.476	451	32.70	122
16	8.617	257	42.24	13	48.294	210	62.81	191	38.753	215	28.75	146	66.927	387	33.92	154
26	8.874	209	42.37	31	48.504	169	64.72	186	38.968	174	27.29	135	67.314	310	35.46	181
36	9.083		42.68		48.673		66.58		39.142		25.94		67.624		37.27	
Mittl. Ort	4.285		46.33		44.924		64.53		35.233		30.01		60.614		42.40	
sec δ, tg δ	1.180		+0.626		1.002		−0.069		1.004		+0.095		1.935		+1.656	

[1] AR. der Mitte; Dekl. des folgenden helleren Sterns.

[2] Ort des hellen Sterns; die jährliche Parallaxe (0″.33) ist bereits berücksichtigt.

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Tag	294) κ Geminorum AR.		Dekl.		295) β Geminorum AR.		Dekl.		297) ζ Volantis AR.		Dekl.		296) π Geminorum AR.		Dekl.	
1929	7h 40m		+24° 34′		7h 40m		+28° 11′		7h 42m		−72° 25′		7h 42m		+33° 35′	
	s		″		s		″		s		″		s		″	
Jan. 1	10.352	173	13.54	5	58.985	178	59.19	17	46.23	7	57.75	374	56.555	190	31.12	50
11	16 10.525	120	13.49	13	16 59.163	124	59.36	35	16 46.30	7	61.49	372	16 56.745	133	31.62	68
20	10.645	65	13.62	27	59.287	66	59.71	50	46.23	20	65.21	360	56.878	73	32.30	82
30	10.710	10	13.89	41	59.353	10	60.21	61	46.03	34	68.81	337	56.951	12	33.12	92
Feb. 9	10.720	41	14.30	49	59.363	43	60.82	68	45.69	46	72.18	306	56.963	43	34.04	97
19	10.679	88	14.79	54	59.320	91	61.50	71	45.23	55	75.24	269	56.920	94	35.01	95
März 1	10.591	124	15.33	56	59.229	129	62.21	70	44.68	64	77.93	227	56.826	134	35.96	90
11	10.467	151	15.89	53	59.100	157	62.91	63	44.04	71	80.20	179	56.692	165	36.86	79
21	10.316	167	16.42	47	58.943	174	63.54	54	43.33	75	81.99	128	56.527	183	37.65	64
31	10.149	172	16.89	39	58.769	179	64.08	42	42.58	76	83.27	76	56.344	189	38.29	47
Apr. 10	9.977	167	17.28	31	58.590	174	64.50	30	41.82	77	84.03	23	56.155	184	38.76	29
20	9.810	151	17.59	21	58.416	158	64.80	16	41.05	75	84.26	31	55.971	168	39.05	11
30	9.659	128	17.80	11	58.258	134	64.96	4	40.30	71	83.95	83	55.803	144	39.16	8
Mai 10	9.531	98	17.91	3	58.124	104	65.00	8	39.59	65	83.12	134	55.659	112	39.08	24
20	9.433	65	17.94	5	58.020	70	64.92	19	38.94	59	81.78	180	55.547	76	38.84	40
30	9.368	28	17.89	11	57.950	31	64.73	28	38.35	50	79.98	222	55.471	36	38.44	52
Juni 9	9.340	11	17.78	17	57.919	9	64.45	35	37.85	41	77.76	259	55.435	6	37.92	62
19	9.351	49	17.61	22	57.928	48	64.10	42	37.44	30	75.17	289	55.441	49	37.30	72
29	9.400	87	17.39	25	57.976	86	63.68	47	37.14	19	72.28	312	55.490	89	36.58	79
Juli 9	9.487	122	17.14	30	58.062	124	63.21	52	36.95	7	69.16	324	55.579	128	35.79	83
19	9.609	155	16.84	35	58.186	158	62.69	56	36.88	5	65.92	328	55.707	165	34.96	88
29	9.764	187	16.49	39	58.344	191	62.13	60	36.93	17	62.64	322	55.872	200	34.08	91
Aug. 8	9.951	216	16.10	45	58.535	220	61.53	64	37.10	28	59.42	305	56.072	231	33.17	93
18	10.167	241	15.65	51	58.755	247	60.89	69	37.38	40	56.37	277	56.303	260	32.24	95
28	10.408	266	15.14	58	59.002	272	60.20	73	37.78	51	53.60	240	56.563	287	31.29	97
Sept. 7	10.674	287	14.56	66	59.274	294	59.47	79	38.29	59	51.20	192	56.850	310	30.32	97
17	10.961	306	13.90	73	59.568	314	58.68	82	38.88	67	49.28	138	57.160	331	29.35	97
27	11.267	322	13.17	80	59.882	330	57.86	86	39.55	72	47.90	78	57.491	349	28.38	95
Okt. 7	11.589	335	12.37	85	60.212	344	57.00	88	40.27	75	47.12	12	57.840	363	27.43	92
17	11.924	344	11.52	88	60.556	353	56.12	86	41.02	76	47.00	56	58.203	373	26.51	85
27	12.268	348	10.64	89	60.909	357	55.26	83	41.78	74	47.56	121	58.576	377	25.66	75
Nov. 6	12.616	345	9.75	85	61.266	354	54.43	76	42.52	70	48.77	183	58.953	374	24.91	63
16	12.961	334	8.90	78	61.620	343	53.67	66	43.22	63	50.60	241	59.327	363	24.28	48
26	13.295	315	8.12	67	61.963	324	53.01	52	43.85	54	53.01	289	59.690	343	23.80	29
Dez. 6	13.610	287	7.45	53	62.287	295	52.49	35	44.39	43	55.90	328	60.033	313	23.51	8
16	13.897	251	6.92	37	62.582	258	52.14	16	44.82	30	59.18	356	60.346	274	23.43	14
26	14.148	207	6.55	19	62.840	213	51.98	3	45.12	16	62.74	372	60.620	226	23.57	35
36	14.355		6.36		63.053		52.01		45.28		66.46		60.846		23.92	
Mittl. Ort	9.864		10.84		58.470		56.79		42.10		69.14		55.982		29.17	
sec δ, tg δ	1.100		+0.457		1.135		+0.536		3.314		−3.159		1.200		+0.664	

Tag	300) Grb 1374 AR.		300) Grb 1374 Dekl.		303) χ Argus AR.		303) χ Argus Dekl.		305) χ Geminorum AR.		305) χ Geminorum Dekl.		306) ζ Argus AR.		306) ζ Argus Dekl.	
1929	$7^h 51^m$		$+74° 6'$		$7^h 54^m$		$-52° 47'$		$7^h 59^m$		$+27° 59'$		$8^h 1^m$		$-39° 47'$	
	s		″		s		″		s		″		s		″	
Jan. 1	47.12	45	36.99	258	59.989	128	17.17	366	10.174	198	43.05	7	6.202	143	58.33	338
11	47.57	28	39.57	276	60.117	53	20.83	362	10.372	145	43.12	28	6.345	83	61.71	333
20*)	47.85	12	42.33	284	60.170	22	24.45	348	10.517	87	43.40	46	6.428	21	65.04	317
30	47.97	5	45.17	281	60.148	93	27.93	326	10.604	30	43.86	59	6.449	38	68.21	295
Feb. 9	47.92	21	47.98	267	60.055	160	31.19	295	10.634	24	44.45	70	6.411	93	71.16	265
19	47.71	35	50.65	242	59.895	217	34.14	258	10.610	73	45.15	74	6.318	142	73.81	230
März 1	47.36	48	53.07	208	59.678	265	36.72	216	10.537	114	45.89	75	6.176	183	76.11	190
11	46.88	58	55.15	165	59.413	301	38.88	170	10.423	145	46.64	70	5.993	213	78.01	148
21	46.30	63	56.80	118	59.112	326	40.58	120	10.278	164	47.34	63	5.780	234	79.49	103
31	45.67	67	57.98	66	58.786	337	41.78	71	10.114	174	47.97	53	5.546	244	80.52	57
Apr. 10	45.00	67	58.64	13	58.449	337	42.49	19	9.940	171	48.50	39	5.302	243	81.09	11
20	44.33	65	58.77	40	58.112	326	42.68	32	9.769	159	48.89	26	5.059	234	81.20	34
30	43.68	58	58.37	90	57.786	305	42.36	81	9.610	139	49.15	12	4.825	216	80.86	78
Mai 10	43.10	50	57.47	136	57.481	276	41.55	129	9.471	112	49.27	0	4.609	192	80.08	121
20	42.60	41	56.11	177	57.205	239	40.26	174	9.359	80	49.27	13	4.417	162	78.87	160
30	42.19	30	54.34	212	56.966	196	38.52	213	9.279	44	49.14	24	4.255	127	77.27	195
Juni 9	41.89	17	52.22	241	56.770	149	36.39	247	9.235	7	48.90	33	4.128	89	75.32	225
19	41.72	4	49.81	262	56.621	97	33.92	276	9.228	32	48.57	41	4.039	49	73.07	250
29	41.68	8	47.19	277	56.524	42	31.16	297	9.260	69	48.16	49	3.990	7	70.57	267
Juli 9	41.76	21	44.42	285	56.482	13	28.19	308	9.329	105	47.67	55	3.983	36	67.90	278
19	41.97	33	41.57	286	56.495	68	25.11	311	9.434	140	47.12	61	4.019	78	65.12	279
29	42.30	46	38.71	281	56.563	125	22.00	305	9.574	173	46.51	68	4.097	120	62.33	271
Aug. 8	42.76	56	35.90	270	56.688	180	18.95	288	9.747	203	45.83	73	4.217	161	59.62	256
18	43.32	66	33.20	254	56.868	232	16.07	261	9.950	231	45.10	79	4.378	199	57.06	229
28	43.98	75	30.66	232	57.100	280	13.46	223	10.181	258	44.31	85	4.577	237	54.77	195
Sept. 7	44.73	84	28.34	206	57.380	324	11.23	179	10.439	282	43.46	92	4.814	270	52.82	153
17	45.57	90	26.28	176	57.704	363	9.44	125	10.721	304	42.54	96	5.084	301	51.29	102
27	46.47	95	24.52	141	58.067	393	8.19	66	11.025	324	41.58	101	5.385	325	50.27	48
Okt. 7	47.42	99	23.11	102	58.460	414	7.53	3	11.349	340	40.57	103	5.710	345	49.79	11
17	48.41	102	22.09	60	58.874	425	7.50	62	11.689	352	39.54	103	6.055	357	49.90	70
27	49.43	102	21.49	16	59.299	426	8.12	126	12.041	359	38.51	100	6.412	360	50.60	129
Nov. 6	50.45	99	21.33	31	59.725	413	9.38	186	12.400	360	37.51	92	6.772	355	51.89	184
16	51.44	96	21.64	78	60.138	388	11.24	241	12.760	352	36.59	82	7.127	339	53.73	233
26	52.40	90	22.42	123	60.526	351	13.65	288	13.112	336	35.77	67	7.466	313	56.06	274
Dez. 6	53.30	80	23.65	167	60.877	301	16.53	324	13.448	311	35.10	49	7.779	278	58.80	306
16	54.10	68	25.32	207	61.178	242	19.77	350	13.759	275	34.61	29	8.057	233	61.86	328
26	54.78	55	27.39	239	61.420	175	23.27	364	14.034	231	34.32	8	8.290	180	65.14	338
36	55.33		29.78		61.595		26.91		14.265		34.24		8.470		68.52	
Mittl. Ort	43.94		37.19		58.477		28.20		9.680		41.12		5.258		68.47	
sec δ, tg δ	3.652		+3.513		1.654		−1.317		1.133		+0.532		1.302		−0.833	

*) Bei Stern 306) lies Jan. 21

Scheinbare Sternörter 1929

Tag	307) 27 Lyncis AR.		307) 27 Lyncis Dekl.		308) ι Navis AR.		308) ι Navis Dekl.	
1929	8h 3m		+51° 42′		8h 4m		—24° 5′	
	s		″		s		″	
Jan. 1	8.526	264	46.63	145	31.793	154	46.91	283
11	8.790	191	48.08	167	31.947	103	49.74	274
21	[21] 8.981	112	49.75	183	[22] 32.050	49	52.48	257
30	9.093	32	51.58	190	32.099	3	55.05	235
Feb. 9	9.125	43	53.48	189	32.096	53	57.40	206
19	9.082	113	55.37	180	32.043	97	59.46	175
März 1	8.969	170	57.17	163	31.946	133	61.21	141
11	8.799	216	58.80	139	31.813	160	62.62	106
21	8.583	247	60.19	109	31.653	179	63.68	69
31	8.336	262	61.28	76	31.474	187	64.37	32
Apr. 10	8.074	262	62.04	39	31.287	187	64.69	4
20	7.812	249	62.43	4	31.100	177	64.65	40
30	7.563	223	62.47	32	30.923	161	64.25	74
Mai 10	7.340	187	62.15	65	30.762	139	63.51	106
20	7.153	143	61.50	96	30.623	112	62.45	137
30	7.010	93	60.54	122	30.511	81	61.08	163
Juni 9	6.917	41	59.32	145	30.430	49	59.45	185
19	6.876	14	57.87	164	30.381	14	57.60	204
29	6.890	69	56.23	177	30.367	21	55.56	216
Juli 9	6.959	122	54.46	188	30.388	55	53.40	221
19	7.081	173	52.58	194	30.443	89	51.19	222
29	7.254	222	50.64	196	30.532	124	48.97	213
Aug. 8	7.476	268	48.68	195	30.656	155	46.84	196
18	7.744	309	46.73	190	30.811	186	44.88	174
28	8.053	349	44.83	183	30.997	216	43.14	142
Sept. 7	8.402	384	43.00	172	31.213	243	41.72	105
17	8.786	416	41.28	158	31.456	268	40.67	63
27	9.202	443	39.70	142	31.724	289	40.04	15
Okt. 7	9.645	466	38.28	121	32.013	306	39.89	34
17	10.111	481	37.07	97	32.319	319	40.23	84
27	10.592	490	36.10	70	32.638	324	41.07	132
Nov. 6	11.082	489	35.40	40	32.962	323	42.39	177
16	11.571	478	35.00	7	33.285	313	44.16	215
26	12.049	454	34.93	27	33.598	294	46.31	246
Dez. 6	12.503	418	35.20	62	33.892	265	48.77	269
16	12.921	369	35.82	96	34.157	230	51.46	283
26	13.290	310	36.78	125	34.387	187	54.29	287
36	13.600		38.03		34.574		57.16	
Mittl. Ort	7.553		46.79		31.189		55.30	
sec δ, tg δ	1.614		+1.267		1.095		—0.447	

Tag	309) γ Argus AR.		309) γ Argus Dekl.		311) 20 Navis AR.		311) 20 Navis Dekl.	
1929	8h 7m		—47° 7′		8h 10m		—15° 34′	
	s		″		s		″	
Jan. 1	21.799	149	24.78	356	4.674	165	16.54	246
11	21.948	82	28.34	354	4.839	116	19.00	235
21	[23] 22.030	14	31.88	342	[23] 4.955	64	21.35	218
30	22.044	51	35.30	320	5.019	13	23.53	195
Feb. 9	21.993	112	38.50	292	5.032	34	25.48	170
19	21.881	167	41.42	256	4.998	78	27.18	141
März 1	21.714	212	43.98	216	4.920	114	28.59	111
11	21.502	248	46.14	172	4.806	141	29.70	80
21	21.254	271	47.86	125	4.665	160	30.50	49
31	20.983	283	49.11	78	4.505	168	30.99	20
Apr. 10	20.700	286	49.89	28	4.337	168	31.19	10
20	20.414	278	50.17	21	4.169	160	31.09	39
30	20.136	260	49.96	68	4.009	145	30.70	67
Mai 10	19.876	236	49.28	115	3.864	123	30.03	93
20	19.640	205	48.13	158	3.741	98	29.10	116
30	19.435	168	46.55	196	3.643	68	27.94	137
Juni 9	19.267	126	44.59	231	3.575	38	26.57	155
19	19.141	83	42.28	259	3.537	5	25.02	170
29	19.058	36	39.69	280	3.532	27	23.32	178
Juli 9	19.022	12	36.89	292	3.559	60	21.54	182
19	19.034	61	33.97	297	3.619	92	19.72	181
29	19.095	109	31.00	292	3.711	122	17.91	172
Aug. 8	19.204	157	28.08	276	3.833	153	16.19	157
18	19.361	203	25.32	252	3.986	181	14.62	137
28	19.564	247	22.80	218	4.167	209	13.25	108
Sept. 7	19.811	288	20.62	175	4.376	234	12.17	75
17	20.099	323	18.87	124	4.610	258	11.42	38
27	20.422	353	17.63	67	4.868	279	11.04	4
Okt. 7	20.775	375	16.96	6	5.147	296	11.08	47
17	21.150	388	16.90	56	5.443	309	11.55	90
27	21.538	394	17.46	119	5.752	317	12.45	132
Nov. 6	21.932	387	18.65	179	6.069	317	13.77	169
16	22.319	370	20.44	230	6.386	309	15.46	200
26	22.689	340	22.74	277	6.695	294	17.46	225
Dez. 6	23.029	300	25.51	313	6.989	269	19.71	243
16	23.329	249	28.64	340	7.258	236	22.14	252
26	23.578	190	32.04	355	7.494	195	24.66	252
36	23.768		35.59		7.689		27.18	
Mittl. Ort	20.631		36.16		4.187		23.98	
sec δ, tg δ	1.470		—1.077		1.038		—0.279	

Tag	310) Br 1147				312) β Cancri				314) 31 Lyncis				315) ε Argus			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
1929	8h 10m		+75° 58′		8h 12m		+9° 24′		8h 17m		+43° 24′		8h 21m		−59° 16′	
Jan. 1	43.83	56	33.42	252	40.385	187	23.79	112	59.641	254	61.80	89	5.328	175	35.99	373
11	44.39	38	35.94	276	40.572	139	22.67	93	59.895	191	62.69	114	5.503	89	39.72	378
21	44.77	20	38.70	289	40.711	88	21.74	74	60.086	124	63.83	134	5.592	3	43.50	370
30	44.97	1	41.59	290	40.799	36	21.00	55	60.210	55	65.17	147	5.595	82	47.20	353
Feb. 9	44.98	18	44.49	281	40.835	13	20.45	35	60.265	12	66.64	153	5.513	161	50.73	328
19	44.80	35	47.30	259	40.822	57	20.10	18	60.253	73	68.17	151	5.352	231	54.01	296
März 1	44.45	49	49.89	227	40.765	95	19.92	3	60.180	126	69.68	143	5.121	292	56.97	257
11	43.96	61	52.16	188	40.670	123	19.89	10	60.054	166	71.11	128	4.829	339	59.54	214
21	43.35	70	54.04	141	40.547	142	19.99	20	59.888	195	72.39	107	4.490	374	61.68	166
31	42.65	75	55.45	90	40.405	152	20.19	29	59.693	211	73.46	82	4.116	395	63.34	115
Apr. 10	41.90	76	56.35	35	40.253	152	20.48	35	59.482	215	74.28	54	3.721	404	64.49	64
20	41.14	75	56.70	19	40.101	143	20.83	40	59.267	205	74.82	26	3.317	400	65.13	11
30	40.39	69	56.51	71	39.958	127	21.23	45	59.062	186	75.08	4	2.917	385	65.24	40
Mai 10	39.70	62	55.80	121	39.831	105	21.68	49	58.876	157	75.04	31	2.532	360	64.84	91
20	39.08	52	54.59	165	39.726	78	22.17	51	58.719	123	74.73	58	2.172	324	63.93	140
30	38.56	40	52.94	204	39.648	49	22.68	53	58.596	82	74.15	82	1.848	283	62.53	185
Juni 9	38.16	27	50.90	237	39.599	18	23.21	55	58.514	39	73.33	102	1.565	233	60.68	224
19	37.89	14	48.53	263	39.581	15	23.76	55	58.475	5	72.31	120	1.332	177	58.44	258
29	37.75	1	45.90	281	39.596	47	24.31	54	58.480	50	71.11	135	1.155	118	55.86	286
Juli 9	37.76	15	43.09	294	39.643	79	24.85	50	58.530	95	69.76	146	1.037	54	53.00	304
19	37.91	29	40.15	299	39.722	109	25.35	44	58.625	137	68.30	155	0.983	13	49.96	313
29	38.20	43	37.16	298	39.831	138	25.79	35	58.762	178	66.75	161	0.996	80	46.83	314
Aug. 8	38.63	55	34.18	290	39.969	166	26.14	24	58.940	216	65.14	165	1.076	147	43.69	303
18	39.18	68	31.28	277	40.135	192	26.38	11	59.156	253	63.49	166	1.223	213	40.66	283
28	39.86	78	28.51	258	40.327	217	26.49	6	59.409	288	61.83	165	1.436	277	37.83	250
Sept. 7	40.64	88	25.93	233	40.544	241	26.43	27	59.697	319	60.18	162	1.713	336	35.33	210
17	41.52	96	23.60	204	40.785	264	26.16	47	60.016	349	58.56	156	2.049	388	33.23	160
27	42.48	104	21.56	170	41.049	283	25.69	68	60.365	374	57.00	147	2.437	431	31.63	103
Okt. 7	43.52	109	19.86	132	41.332	300	25.01	90	60.739	398	55.53	135	2.868	465	30.60	40
17	44.61	112	18.54	89	41.632	314	24.11	109	61.137	415	54.18	119	3.333	486	30.20	26
27	45.73	114	17.65	44	41.946	323	23.02	126	61.552	426	52.99	100	3.819	494	30.46	91
Nov. 6	46.87	113	17.21	6	42.269	325	21.76	138	61.978	430	51.99	79	4.313	485	31.37	155
16	48.00	110	17.27	54	42.594	321	20.38	146	62.408	424	51.20	51	4.798	462	32.92	216
26	49.10	103	17.81	103	42.915	307	18.92	149	62.832	408	50.69	23	5.260	424	35.08	268
Dez. 6	50.13	93	18.84	151	43.222	286	17.43	145	63.240	380	50.46	8	5.684	370	37.76	311
16	51.06	82	20.35	194	43.508	255	15.98	137	63.620	342	50.54	39	6.054	304	40.87	345
26	51.88	67	22.29	231	43.763	217	14.61	124	63.962	292	50.93	72	6.358	228	44.32	366
36	52.55		24.60		43.980		13.37		64.254		51.65		6.586		47.98	
Mittl. Ort	40.15		34.93		40.003		19.86		58.934		62.06		3.559		49.70	
sec δ, tg δ	4.127		+4.004		1.014		+0.166		1.377		+0.946		1.958		−1.683	

Tag	316) Br 1197				318) ϑ Chamael.				317) o Ursae maj.				320) Grb 1450			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
1929	8h 22m		−3° 40′		8h 22m		−77° 15′		8h 24m		+60° 57′		8h 28m		+38° 15′	
	s		″		s		″		s		″		s		″	
Jan. 1	7.214	184	19.43	189	53.21	24	6.54	368	24.32	35	24.14	178	18.999	250	40.31	53
11	7.398	137	21.32	174	53.45	4	10.22	379	24.67	26	25.92	205	19.249	193	40.84	79
21	26 7.535	87	23.06	155	26 53.49	14	14.01	376	27 24.93	17	27.97	225	28 19.442	131	41.63	101
30	7.622	37	24.61	135	53.35	32	17.77	365	25.10	6	30.22	234	19.573	66	42.64	117
Feb. 9	7.659	12	25.96	111	53.03	49	21.42	343	25.16	3	32.56	234	19.639	4	43.81	127
19	7.647	56	27.07	87	52.54	65	24.85	315	25.13	13	34.90	224	19.643	54	45.08	131
März 1	7.591	92	27.94	64	51.89	77	28.00	280	25.00	19	37.14	204	19.589	104	46.39	127
11	7.499	121	28.58	41	51.12	87	30.80	239	24.81	26	39.18	177	19.485	144	47.66	118
21	7.378	141	28.99	19	50.25	96	33.19	192	24.55	31	40.95	142	19.341	172	48.84	103
31	7.237	151	29.18	1	49.29	102	35.11	144	24.24	34	42.37	103	19.169	188	49.87	83
Apr. 10	7.086	153	29.17	20	48.27	104	36.55	92	23.90	35	43.40	59	18.981	193	50.70	62
20	6.933	146	28.97	39	47.23	104	37.47	39	23.55	34	43.99	16	18.788	186	51.32	37
30	6.787	133	28.58	55	46.19	103	37.86	15	23.21	31	44.15	28	18.602	171	51.69	12
Mai 10	6.654	112	28.03	71	45.16	98	37.71	67	22.90	28	43.87	71	18.431	145	51.81	12
20	6.542	88	27.32	85	44.18	91	37.04	119	22.62	23	43.16	109	18.286	115	51.69	36
30	6.454	62	26.47	97	43.27	82	35.85	166	22.39	17	42.07	144	18.171	80	51.33	56
Juni 9	6.392	32	25.50	107	42.45	72	34.19	210	22.22	11	40.63	175	18.091	42	50.77	76
19	6.360	1	24.43	115	41.73	59	32.09	248	22.11	4	38.88	200	18.049	1	50.01	92
29	6.359	30	23.28	119	41.14	45	29.61	279	22.07	2	36.88	219	18.048	39	49.09	107
Juli 9	6.389	60	22.09	119	40.69	29	26.82	302	22.09	9	34.69	235	18.087	79	48.02	119
19	6.449	90	20.90	116	40.40	14	23.80	317	22.18	16	32.34	244	18.166	118	46.83	129
29	6.539	119	19.74	107	40.26	3	20.63	320	22.34	23	29.90	249	18.284	155	45.54	138
Aug. 8	6.658	147	18.67	94	40.29	20	17.43	315	22.57	28	27.41	249	18.439	190	44.16	144
18	6.805	174	17.73	76	40.49	37	14.28	298	22.85	34	24.92	243	18.629	225	42.72	148
28	6.979	201	16.97	54	40.86	52	11.30	270	23.19	40	22.49	235	18.854	257	41.24	151
Sept. 7	7.180	226	16.43	27	41.38	67	8.60	232	23.59	44	20.14	220	19.111	288	39.73	153
17	7.406	249	16.16	3	42.05	80	6.28	185	24.03	49	17.94	202	19.399	317	38.20	151
27	7.655	271	16.19	35	42.85	89	4.43	129	24.52	53	15.92	180	19.716	342	36.69	148
Okt. 7	7.926	290	16.54	69	43.74	97	3.14	68	25.05	57	14.12	153	20.058	366	35.21	142
17	8.216	305	17.23	101	44.71	101	2.46	3	25.62	59	12.59	122	20.424	384	33.79	131
27	8.521	314	18.24	131	45.72	102	2.43	64	26.21	60	11.37	88	20.808	398	32.48	118
Nov. 6	8.835	318	19.55	157	46.74	99	3.07	130	26.81	61	10.49	49	21.206	403	31.30	100
16	9.153	314	21.12	179	47.73	92	4.37	192	27.42	60	10.00	8	21.609	401	30.30	79
26	9.467	301	22.91	194	48.65	82	6.29	247	28.02	57	9.92	35	22.010	388	29.51	53
Dez. 6	9.768	281	24.85	202	49.47	68	8.76	295	28.59	53	10.27	77	22.398	364	28.98	26
16	10.049	251	26.87	203	50.15	53	11.71	333	29.12	48	11.04	118	22.762	330	28.72	4
26	10.300	213	28.90	197	50.68	35	15.04	360	29.60	40	12.22	155	23.092	285	28.76	33
36	10.513		30.87		51.03		18.64		30.00		13.77		23.377		29.09	
Mittl. Ort	6.837		25.35		47.95		21.84		22.90		26.07		18.416		40.49	
sec δ, tg δ	1.002		—0.064		4.533		—4.422		2.060		+1.801		1.274		+0.789	

Tag	321) η Cancri AR.		321) η Cancri Dekl.		326) δ Cancri AR.		326) δ Cancri Dekl.	
1929	8h 28m		+20° 40′		8h 40m		+18° 24′	
	s		″		s		″	
Jan. 1	36.771	216	62.79	51	39.548	223	61.03	71
11	36.987	166	62.28	29	39.771	176	60.32	48
21	37.153	113	61.99	7	39.947	124	59.84	26
30*)	28 37.266	58	61.92	12	31 40.071	69	59.58	5
Feb. 9	37.324	6	62.04	28	40.140	17	59.53	14
19	37.330	43	62.32	42	40.157	31	59.67	29
März 1	37.287	84	62.74	50	40.126	73	59.96	40
11	37.203	118	63.24	55	40.053	107	60.36	48
21	37.085	140	63.79	56	39.946	132	60.84	52
31	36.945	153	64.35	53	39.814	146	61.36	52
Apr. 10	36.792	157	64.88	49	39.668	151	61.88	50
20	36.635	150	65.37	43	39.517	147	62.38	46
30	36.485	135	65.80	35	39.370	135	62.84	40
Mai 10	36.350	115	66.15	28	39.235	116	63.24	35
20	36.235	90	66.43	19	39.119	93	63.59	28
30	36.145	60	66.62	11	39.026	66	63.87	21
Juni 9	36.085	28	66.73	4	38.960	36	64.08	14
19	36.057	5	66.77	3	38.924	5	64.22	7
29	36.062	38	66.74	11	38.919	26	64.29	0
Juli 9	36.100	71	66.63	18	38.945	58	64.29	8
19	36.171	102	66.45	27	39.003	89	64.21	17
29	36.273	133	66.18	36	39.092	119	64.04	27
Aug. 8	36.406	163	65.82	46	39.211	148	63.77	37
18	36.569	191	65.36	56	39.359	176	63.40	50
28	36.760	218	64.80	69	39.535	204	62.90	64
Sept. 7	36.978	244	64.11	81	39.739	231	62.26	78
17	37.222	269	63.30	94	39.970	256	61.48	92
27	37.491	291	62.36	106	40.226	280	60.56	107
Okt. 7	37.782	312	61.30	116	40.506	303	59.49	120
17	38.094	328	60.14	124	40.809	321	58.29	131
27	38.422	341	58.90	129	41.130	335	56.98	138
Nov. 6	38.763	346	57.61	130	41.465	343	55.60	141
16	39.109	344	56.31	126	41.808	343	54.19	140
26	39.453	334	55.05	118	42.151	334	52.79	134
Dez. 6	39.787	314	53.87	104	42.485	317	51.45	122
16	40.101	284	52.83	87	42.802	289	50.23	106
26	40.385	246	51.96	67	43.091	253	49.17	86
36	40.631		51.29		43.344		48.31	
Mittl. Ort	36.385		60.67		39.203		58.78	
sec δ, tg δ	1.069		+0.378		1.054		+0.333	

Tag	327) α Pyxidis AR.		327) α Pyxidis Dekl.		328) ι Cancri AR.		328) ι Cancri Dekl.	
1929	8h 40m		−32° 55′		8h 42m		+29° 1′	
	s		″		s		″	
Jan. 1	44.906	192	35.13	319	24.755	243	15.33	9
11	45.098	138	38.32	317	24.998	192	15.24	17
21	45.236	81	41.49	306	25.190	136	15.41	40
30*)	31 45.317	25	44.55	288	31 25.326	78	15.81	61
Feb. 9	45.342	29	47.43	264	25.404	21	16.42	77
19	45.313	79	50.07	233	25.425	32	17.19	87
März 1	45.234	121	52.40	199	25.393	78	18.06	92
11	45.113	155	54.39	162	25.315	115	18.98	91
21	44.958	180	56.01	122	25.200	143	19.89	86
31	44.778	195	57.23	82	25.057	159	20.75	77
Apr. 10	44.583	202	58.05	41	24.898	166	21.52	63
20	44.381	199	58.46	1	24.732	162	22.15	49
30	44.182	189	58.45	41	24.570	149	22.64	33
Mai 10	43.993	173	58.04	80	24.421	130	22.97	16
20	43.820	151	57.24	117	24.291	105	23.13	0
30	43.669	125	56.07	150	24.186	75	23.13	16
Juni 9	43.544	95	54.57	181	24.111	42	22.97	30
19	43.449	63	52.76	206	24.069	9	22.67	44
29	43.386	29	50.70	225	24.060	26	22.23	56
Juli 9	43.357	7	48.45	238	24.086	60	21.67	68
19	43.364	43	46.07	244	24.146	94	20.99	79
29	43.407	79	43.63	242	24.240	127	20.20	89
Aug. 8	43.486	117	41.21	231	24.367	159	19.31	99
18	43.603	153	38.90	212	24.526	190	18.32	109
28	43.756	190	36.78	184	24.716	219	17.23	117
Sept. 7	43.946	224	34.94	148	24.935	248	16.06	125
17	44.170	256	33.46	105	25.183	276	14.81	132
27	44.426	286	32.41	56	25.459	302	13.49	138
Okt. 7	44.712	312	31.85	3	25.761	326	12.11	141
17	45.024	332	31.82	51	26.087	345	10.70	141
27	45.356	344	32.33	106	26.432	360	9.29	136
Nov. 6	45.700	348	33.39	158	26.792	369	7.93	129
16	46.048	344	34.97	206	27.161	369	6.64	117
26	46.392	329	37.03	247	27.530	361	5.47	99
Dez. 6	46.721	303	39.50	280	27.891	342	4.48	78
16	47.024	268	42.30	304	28.233	313	3.70	54
26	47.292	225	45.34	318	28.546	274	3.16	28
36	47.517		48.52		28.820		2.88	
Mittl. Ort	44.307		46.53		24.331		14.80	
sec δ, tg δ	1.191		−0.648		1.144		+0.555	

*) Bei Stern 326), 327) und 328) lies Jan. 31

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Tag	330) δ Argus AR.	330) δ Argus Dekl.	334) ζ Hydrae AR.	334) ζ Hydrae Dekl.	336) c Carinae AR.	336) c Carinae Dekl.	335) ι Ursae maj. AR.	335) ι Ursae maj. Dekl.
1929	$8^h\ 42^m$	−54° 26′	$8^h\ 51^m$	+6° 12′	$8^h\ 53^m$	−60° 22′	$8^h\ 54^m$	+48° 19′
	s	″	s	″	s	″	s	″
Jan. 1	45.876 208	37.80 366	38.830 219	64.69 144	27.97 24	5.42 368	22.138 315	15.10 90
11	46.084 134	41.46 372	39.049 173	63.25 126	28.21 16	9.10 379	22.453 251	16.00 123
21	46.218 57	45.18 370	39.222 124	61.99 105	28.37 7	12.89 380	22.704 181	17.23 150
31	46.275 20	48.88 356	39.346 73	60.94 82	28.44 2	16.69 370	22.885 106	18.73 169
Feb. 9	[3] 46.255 92	52.44 334	[3] 39.419 23	60.12 61	[3] 28.42 11	20.39 352	[3] 22.991 33	20.42 181
19	46.163 157	55.78 304	39.442 24	59.51 40	28.31 18	23.91 325	23.024 37	22.23 185
März 1	46.006 215	58.82 269	39.418 64	59.11 20	28.13 25	27.16 292	22.987 99	24.08 179
11	45.791 261	61.51 228	39.354 96	58.91 3	27.88 30	30.08 252	22.888 150	25.87 165
21	45.530 296	63.79 183	39.258 121	58.88 11	27.58 35	32.60 208	22.738 190	27.52 145
31	45.234 319	65.62 135	39.137 136	58.99 23	27.23 38	34.68 160	22.548 217	28.97 119
Apr. 10	44.915 332	66.97 86	39.001 142	59.22 33	26.85 39	36.28 111	22.331 229	30.16 89
20	44.583 332	67.83 34	38.859 140	59.55 41	26.46 40	37.39 58	22.102 230	31.05 55
30	44.251 324	68.17 16	38.719 130	59.96 48	26.06 40	37.97 7	21.872 218	31.60 20
Mai 10	43.927 306	68.01 66	38.589 115	60.44 54	25.66 38	38.04 46	21.654 197	31.80 14
20	43.621 280	67.35 115	38.474 94	60.98 58	25.28 36	37.58 97	21.457 167	31.66 47
30	43.341 246	66.20 160	38.380 71	61.56 61	24.92 32	36.61 144	21.290 131	31.19 79
Juni 9	43.095 207	64.60 200	38.309 44	62.17 63	24.60 28	35.17 188	21.159 90	30.40 107
19	42.888 163	62.60 235	38.265 16	62.80 63	24.32 23	33.29 228	21.069 47	29.33 133
29	42.725 114	60.25 265	38.249 12	63.43 62	24.09 17	31.01 259	21.022 1	28.00 154
Juli 9	42.611 60	57.60 286	38.261 41	64.05 59	23.92 11	28.42 285	21.021 44	26.46 174
19	42.551 6	54.74 299	38.302 70	64.64 52	23.81 5	25.57 302	21.065 90	24.72 188
29	42.545 51	51.75 302	38.372 98	65.16 43	23.76 2	22.55 309	21.155 135	22.84 199
Aug. 8	42.596 110	48.73 295	38.470 127	65.59 31	23.78 9	19.46 306	21.290 178	20.85 208
18	42.706 168	45.78 278	38.597 154	65.90 16	23.87 16	16.40 292	21.468 221	18.77 213
28	42.874 225	43.00 251	38.751 181	66.06 3	24.03 23	13.48 268	21.689 261	16.64 214
Sept. 7	43.099 279	40.49 214	38.932 209	66.03 24	24.26 30	10.80 234	21.950 301	14.50 211
17	43.378 329	38.35 167	39.141 235	65.79 47	24.56 36	8.46 189	22.251 338	12.39 206
27	43.707 372	36.68 114	39.376 260	65.32 72	24.92 41	6.57 137	22.589 372	10.33 196
Okt. 7	44.079 409	35.54 54	39.636 283	64.60 96	25.33 46	5.20 77	22.961 404	8.37 182
17	44.488 434	35.00 10	39.919 302	63.64 118	25.79 49	4.43 13	23.365 430	6.55 164
27	44.922 448	35.10 75	40.221 317	62.46 140	26.28 51	4.30 52	23.795 451	4.91 141
Nov. 6	45.370 450	35.85 138	40.538 327	61.06 157	26.79 51	4.82 119	24.246 463	3.50 114
16	45.820 438	37.23 198	40.865 328	59.49 167	27.30 51	6.01 181	24.709 466	2.36 83
26	46.258 411	39.21 252	41.193 321	57.82 174	27.81 47	7.82 238	25.175 455	1.53 47
Dez. 6	46.669 370	41.73 297	41.514 306	56.08 174	28.28 42	10.20 287	25.630 434	1.06 10
16	47.039 317	44.70 333	41.820 280	54.34 168	28.70 37	13.07 327	26.064 400	0.96 28
26	47.356 254	48.03 358	42.100 246	52.66 156	29.07 29	16.34 357	26.464 350	1.24 66
36	47.610	51.61	42.346	51.10	29.36	19.91	26.814	1.90
Mittl. Ort	44.603	52.53	38.553	60.36	26.42	21.62	21.378	17.64
sec δ, tg δ	1.720	−1.399	1.006	+0.109	2.023	−1.758	1.504	+1.123

Tag	337) α Cancri				339) 10 Ursae maj.				341) κ Ursae maj.				343) α Volantis			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
1929	8h 54m		+12° 7′		8h 56m		+42° 3′		8h 58m		+47° 26′		9h 1m		−66° 6′	
	s		"		s		"		s		"		s		"	
Jan. 1	36.681	228	64.06	113	2.947	291	52.00	56	47.983	317	15.93	83	21.80	28	27.64	367
11	36.909	182	62.93	91	3.238	234	52.56	87	48.300	255	16.76	116	22.08	18	31.31	382
21	37.091	132	62.02	70	3.472	170	53.43	114	48.555	185	17.92	144	22.26	8	35.13	386
31	[3]37.223	80	61.32	47	[4]3.642	102	54.57	134	[5]48.740	113	19.36	164	[5]22.34	3	38.99	381
Feb. 9	37.303	29	60.85	25	3.744	36	55.91	149	48.853	40	21.00	177	22.31	13	42.80	365
19	37.332	19	60.60	6	3.780	26	57.40	156	48.893	28	22.77	182	22.18	22	46.45	341
März 1	37.313	61	60.54	10	3.754	83	58.96	154	48.865	90	24.59	178	21.96	31	49.86	309
11	37.252	94	60.64	23	3.671	129	60.50	145	48.775	142	26.37	166	21.65	37	52.95	272
21	37.158	120	60.87	33	3.542	165	61.95	131	48.633	181	28.03	147	21.28	42	55.67	229
31	37.038	135	61.20	40	3.377	188	63.26	110	48.452	208	29.50	122	20.86	47	57.96	183
Apr. 10	36.903	142	61.60	44	3.189	199	64.36	85	48.244	222	30.72	92	20.39	49	59.79	133
20	36.761	141	62.04	46	2.990	199	65.21	58	48.022	223	31.64	60	19.90	51	61.12	80
30	36.620	132	62.50	48	2.791	189	65.79	29	47.799	213	32.24	26	19.39	50	61.92	27
Mai 10	36.488	116	62.98	47	2.602	169	66.08	1	47.586	192	32.50	8	18.89	49	62.19	26
20	36.372	95	63.45	45	2.433	142	66.07	29	47.394	164	32.42	41	18.40	47	61.93	79
30	36.277	71	63.90	43	2.291	111	65.78	56	47.230	130	32.01	72	17.93	42	61.14	129
Juni 9	36.206	45	64.33	40	2.180	74	65.22	81	47.100	91	31.29	101	17.51	38	59.85	175
19	36.161	16	64.73	37	2.106	36	64.41	104	47.009	48	30.28	126	17.13	32	58.10	217
29	36.145	13	65.10	32	2.070	4	63.37	123	46.961	5	29.02	149	16.81	25	55.93	253
Juli 9	36.158	42	65.42	25	2.074	45	62.14	141	46.956	40	27.53	168	16.56	18	53.40	280
19	36.200	71	65.67	18	2.119	84	60.73	155	46.996	84	25.85	183	16.38	10	50.60	301
29	36.271	100	65.85	7	2.203	124	59.18	167	47.080	128	24.02	196	16.28	2	47.59	312
Aug. 8	36.371	128	65.92	5	2.327	163	57.51	177	47.208	171	22.06	204	16.26	7	44.47	312
18	36.499	157	65.87	19	2.490	200	55.74	183	47.379	212	20.02	210	16.33	16	41.35	302
28	36.656	184	65.68	35	2.690	236	53.91	188	47.591	253	17.92	213	16.49	24	38.33	280
Sept. 7	36.840	211	65.33	54	2.926	271	52.03	189	47.844	291	15.79	212	16.73	33	35.53	248
17	37.051	239	64.79	73	3.197	305	50.14	189	48.135	329	13.67	207	17.06	41	33.05	206
27	37.290	264	64.06	93	3.502	337	48.25	184	48.464	364	11.60	198	17.47	48	30.99	155
Okt. 7	37.554	287	63.13	112	3.839	366	46.41	175	48.828	396	9.62	186	17.95	54	29.44	96
17	37.841	307	62.01	129	4.205	391	44.66	163	49.224	422	7.76	168	18.49	57	28.48	33
27	38.148	324	60.72	144	4.596	410	43.03	147	49.646	444	6.08	147	19.06	60	28.15	33
Nov. 6	38.472	333	59.28	154	5.006	422	41.56	126	50.090	457	4.61	120	19.66	61	28.48	101
16	38.805	335	57.74	160	5.428	425	40.30	99	50.547	460	3.41	90	20.27	59	29.49	165
26	39.140	330	56.14	160	5.853	417	39.31	70	51.007	452	2.51	55	20.86	56	31.14	224
Dez. 6	39.470	314	54.54	154	6.270	399	38.61	37	51.459	432	1.96	18	21.42	50	33.38	277
16	39.784	290	53.00	142	6.669	368	38.24	2	51.891	399	1.78	20	21.92	43	36.15	320
26	40.074	255	51.58	127	7.037	325	38.22	32	52.290	354	1.98	55	22.35	34	39.35	353
36	40.329		50.31		7.362		38.54		52.644		2.53		22.69		42.88	
Mittl. Ort	36.400		60.89		2.352		53.85		47.261		18.59		19.81		45.05	
sec δ, tg δ	1.023		+0.215		1.347		+0.902		1.479		+1.089		2.470		−2.258	

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Tag	344) σ² Ursae maj.				345) λ Argus				347) ϑ Hydrae				348) β Argus			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
1929	$9^h\ 4^m$		$+67°\ 25'$		$9^h\ 5^m$		$-43°\ 8'$		$9^h\ 10^m$		$+2°\ 36'$		$9^h\ 12^m$		$-69°\ 25'$	
	s		"		s		"		s		"		s		"	
Jan. 1	12.15	51	23.23	173	23.614	226	28.46	343	40.534	232	57.96	171	27.95	33	9.94	361
11	12.66	40	24.96	211	23.840	168	31.89	349	40.766	189	56.25	153	28.28	22	13.55	379
21	13.06	28	27.07	239	24.008	105	35.38	346	40.955	140	54.72	133	28.50	10	17.34	387
31	6 13.34	17	29.46	257	6 24.113	42	38.84	334	8 41.095	90	53.39	111	28.60	1	21.21	386
Feb. 9	13.51	4	32.03	265	24.155	18	42.18	314	41.185	40	52.28	87	8 28.59	13	25.07	373
19	13.55	7	34.68	261	24.137	75	45.32	287	41.225	7	51.41	64	28.46	24	28.80	352
März 1	13.48	19	37.29	247	24.062	125	48.19	253	41.218	48	50.77	43	28.22	33	32.32	324
11	13.29	28	39.76	223	23.937	166	50.72	217	41.170	83	50.34	23	27.89	41	35.56	289
21	13.01	35	41.99	190	23.771	198	52.89	176	41.087	108	50.11	5	27.48	48	38.45	248
31	12.66	40	43.89	149	23.573	220	54.65	133	40.979	126	50.06	11	27.00	53	40.93	202
Apr. 10	12.26	44	45.38	104	23.353	233	55.98	88	40.853	135	50.17	25	26.47	57	42.95	154
20	11.82	44	46.42	57	23.120	237	56.86	42	40.718	136	50.42	36	25.90	59	44.49	102
30	11.38	43	46.99	7	22.883	232	57.28	5	40.582	129	50.78	46	25.31	58	45.51	48
Mai 10	10.95	41	47.06	42	22.651	220	57.23	49	40.453	117	51.24	54	24.73	58	45.99	6
20	10.54	36	46.64	89	22.431	202	56.74	93	40.336	100	51.78	62	24.15	56	45.93	58
30	10.18	30	45.75	132	22.229	178	55.81	134	40.236	79	52.40	67	23.59	51	45.35	110
Juni 9	9.88	24	44.43	172	22.051	150	54.47	172	40.157	56	53.07	72	23.08	47	44.25	159
19	9.64	16	42.71	206	21.901	118	52.75	204	40.101	31	53.79	75	22.61	41	42.66	203
29	9.48	9	40.65	235	21.783	82	50.71	232	40.070	4	54.54	74	22.20	33	40.63	241
Juli 9	9.39	1	38.30	259	21.701	44	48.39	252	40.066	23	55.28	72	21.87	25	38.22	273
19	9.38	8	35.71	276	21.657	3	45.87	265	40.089	50	56.00	67	21.62	16	35.49	296
29	9.46	16	32.95	287	21.654	40	43.22	270	40.139	78	56.67	58	21.46	7	32.53	310
Aug. 8	9.62	24	30.08	293	21.694	83	40.52	264	40.217	106	57.25	46	21.39	4	29.43	314
18	9.86	32	27.15	294	21.777	128	37.88	251	40.323	134	57.71	30	21.43	14	26.29	307
28	10.18	39	24.21	288	21.905	173	35.37	226	40.457	163	58.01	11	21.57	24	23.22	289
Sept. 7	10.57	47	21.33	277	22.078	216	33.11	193	40.620	191	58.12	11	21.81	35	20.33	260
17	11.04	53	18.56	260	22.294	259	31.18	151	40.811	219	58.01	37	22.16	44	17.73	221
27	11.57	59	15.96	238	22.553	298	29.67	102	41.030	246	57.64	64	22.60	52	15.52	172
Okt. 7	12.16	64	13.58	210	22.851	331	28.65	48	41.276	272	57.00	91	23.12	59	13.80	116
17	12.80	69	11.48	178	23.182	358	28.17	11	41.548	294	56.09	118	23.71	64	12.64	52
27	13.49	73	9.70	139	23.540	378	28.28	71	41.842	312	54.91	142	24.35	68	12.12	13
Nov. 6	14.22	74	8.31	96	23.918	387	28.99	131	42.154	325	53.49	163	25.03	68	12.25	80
16	14.96	74	7.35	49	24.305	385	30.30	186	42.479	329	51.86	178	25.71	67	13.05	146
26	15.70	73	6.86	1	24.690	371	32.16	236	42.808	325	50.08	189	26.38	64	14.51	207
Dez. 6	16.43	69	6.85	50	25.061	346	34.52	279	43.133	313	48.19	193	27.02	58	16.58	262
16	17.12	64	7.35	99	25.407	309	37.31	312	43.446	290	46.26	190	27.60	50	19.20	309
26	17.76	56	8.34	145	25.716	262	40.43	335	43.736	258	44.36	181	28.10	41	22.29	344
36	18.32		9.79		25.978		43.78		43.994		42.55		28.51		25.73	
Mittl. Ort	10.28		28.01		22.936		42.84		40.322		52.93		25.70		28.45	
sec δ, tg δ	2.605		+2.405		1.371		−0.937		1.001		+0.046		2.845		−2.664	

Tag	350) 83 Cancri AR.		350) 83 Cancri Dekl.		352) 40 Lyncis AR.		352) 40 Lyncis Dekl.		353) κ Argus AR.		353) κ Argus Dekl.		354) α Hydrae AR.		354) α Hydrae Dekl.	
1929	9h 15m		+18° 0′		9h 16m		+34° 41′		9h 19m		−54° 42′		9h 24m		−8° 20′	
	s		″		s		″		s		″		s		″	
Jan. 1	1.567	252	27.84	90	44.537	289	36.04	1	55.760	270	7.84	355	6.119	236	52.49	225
11	1.819	208	26.94	65	44.826	238	36.05	33	56.030	199	11.39	370	6.355	193	54.74	214
21	2.027	158	26.29	40	45.064	181	36.38	62	56.229	124	15.09	374	6.548	146	56.88	199
31	2.185	104	25.89	15	45.245	121	37.00	88	56.353	47	18.83	368	6.694	95	58.87	178
Feb. 9*)	2.289	52	25.74	7	45.366	61	37.88	108	56.400	27	22.51	353	6.789	46	60.65	154
19	2.341	2	25.81	26	45.427	3	38.96	121	56.373	95	26.04	331	6.835	0	62.19	130
März 1	2.343	42	26.07	42	45.430	50	40.17	128	56.278	157	29.35	300	6.835	43	63.49	104
11	2.301	81	26.49	51	45.380	94	41.45	127	56.121	210	32.35	265	6.792	77	64.53	79
21	2.220	109	27.00	59	45.286	129	42.72	121	55.911	252	35.00	224	6.715	104	65.32	53
31	2.111	128	27.59	62	45.157	153	43.93	109	55.659	284	37.24	179	6.611	124	65.85	29
Apr. 10	1.983	140	28.21	60	45.004	166	45.02	92	55.375	304	39.03	132	6.487	134	66.14	6
20	1.843	141	28.81	57	44.838	170	45.94	73	55.071	315	40.35	83	6.353	138	66.20	16
30	1.702	135	29.38	51	44.668	164	46.67	50	54.756	316	41.18	33	6.215	133	66.04	36
Mai 10	1.567	122	29.89	44	44.504	151	47.17	27	54.440	308	41.51	18	6.082	124	65.68	54
20	1.445	105	30.33	37	44.353	130	47.44	3	54.132	291	41.33	68	5.958	110	65.14	72
30	1.340	83	30.70	28	44.223	105	47.47	19	53.841	267	40.65	115	5.848	92	64.42	87
Juni 9	1.257	58	30.98	20	44.118	75	47.28	42	53.574	237	39.50	159	5.756	70	63.55	100
19	1.199	31	31.18	10	44.043	44	46.86	63	53.337	200	37.91	198	5.686	47	62.55	111
29	1.168	3	31.28	1	43.999	11	46.23	82	53.137	159	35.93	234	5.639	23	61.44	118
Juli 9	1.165	26	31.29	10	43.988	23	45.41	99	52.978	111	33.59	261	5.616	3	60.26	122
19	1.191	54	31.19	21	44.011	57	44.42	115	52.867	60	30.98	280	5.619	30	59.04	121
29	1.245	83	30.98	32	44.068	92	43.27	130	52.807	6	28.18	292	5.649	58	57.83	117
Aug. 8	1.328	113	30.66	46	44.160	126	41.97	143	52.801	52	25.26	292	5.707	86	56.66	106
18	1.441	141	30.20	60	44.286	160	40.54	154	52.853	112	22.34	284	5.793	116	55.60	90
28	1.582	171	29.60	75	44.446	193	39.00	164	52.965	171	19.50	264	5.909	145	54.70	70
Sept. 7	1.753	199	28.85	91	44.639	227	37.36	171	53.136	230	16.86	234	6.054	175	54.00	44
17	1.952	229	27.94	107	44.866	259	35.65	178	53.366	288	14.52	194	6.229	206	53.56	14
27	2.181	257	26.87	123	45.125	291	33.87	181	53.654	339	12.58	147	6.435	235	53.42	19
Okt. 7	2.438	284	25.64	138	45.416	321	32.06	180	53.993	385	11.11	90	6.670	262	53.61	55
17	2.722	307	24.26	149	45.737	348	30.26	177	54.378	422	10.21	30	6.932	288	54.16	91
27	3.029	328	22.77	159	46.085	370	28.49	168	54.800	447	9.91	34	7.220	308	55.07	125
Nov. 6	3.357	341	21.18	162	46.455	385	26.81	154	55.247	461	10.25	98	7.528	321	56.32	158
16	3.698	347	19.56	162	46.840	392	25.27	136	55.708	460	11.23	161	7.849	328	57.90	186
26	4.045	345	17.94	156	47.232	391	23.91	113	56.168	444	12.84	217	8.177	326	59.76	207
Dez. 6	4.390	333	16.38	144	47.623	378	22.78	86	56.612	413	15.01	269	8.503	314	61.83	223
16	4.723	311	14.94	128	48.001	353	21.92	55	57.025	369	17.70	310	8.817	292	64.06	230
26	5.034	279	13.66	107	48.354	317	21.37	21	57.394	313	20.80	342	9.109	262	66.36	231
36	5.313		12.59		48.671		21.16		57.707		24.22		9.371		68.67	
Mittl. Ort	1.324		26.16		44.136		37.61		54.804		24.91		5.945		60.09	
sec δ, tg δ	1.051		+0.325		1.216		+0.692		1.731		−1.413		1.011		−0.147	

*) Bei Stern 353) und 354) lies Feb. 10

Scheinbare Sternörter 1929

Tag	355) *h* Ursae maj.				359) ψ Argus				358) ϑ Ursae maj.				357) *d* Ursae maj.			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
1929	9h 25m		+63° 22'		9h 27m		−40° 9'		9h 28m		+51° 59'		9h 28m		+70° 8'	
Jan. 1	58.55	48	19.06	136	54.548	250	3.67	331	7.987	373	62.20	79	16.35	60	31.34	161
11	59.03	40	20.42	176	54.798	196	6.98	340	8.360	309	62.99	119	16.95	50	32.95	203
21	59.43	30	22.18	210	54.994	137	10.38	339	8.669	238	64.18	153	17.45	37	34.98	237
31	59.73	19	24.28	235	55.131	77	13.77	329	8.907	161	65.71	179	17.82	24	37.35	261
Feb. 10	59.92	9	26.63	250	55.208	18	17.06	311	9.068	82	67.50	198	18.06	11	39.96	275
19	60.01	1	29.13	254	55.226	37	20.17	287	9.150	5	69.48	207	18.17	3	42.71	276
März 1	60.00	11	31.67	246	55.189	87	23.04	258	9.155	65	71.55	206	18.14	16	45.47	267
11	59.89	19	34.13	229	55.102	129	25.62	223	9.090	126	73.61	196	17.98	26	48.14	246
21	59.70	26	36.42	203	54.973	163	27.85	185	8.964	177	75.57	178	17.72	36	50.60	215
31	59.44	31	38.45	169	54.810	188	29.70	145	8.787	213	77.35	153	17.36	43	52.75	177
Apr. 10	59.13	35	40.14	129	54.622	203	31.15	102	8.574	236	78.88	122	16.93	48	54.52	132
20	58.78	36	41.43	84	54.419	211	32.17	59	8.338	247	80.10	86	16.45	50	55.84	84
30	58.42	36	42.27	38	54.208	211	32.76	15	8.091	244	80.96	49	15.95	50	56.68	32
Mai 10	58.06	35	42.65	10	53.997	203	32.91	29	7.847	231	81.45	11	15.45	48	57.00	18
20	57.71	31	42.55	55	53.794	190	32.62	70	7.616	207	81.56	29	14.97	45	56.82	69
30	57.40	27	42.00	100	53.604	172	31.92	111	7.409	177	81.27	66	14.52	39	56.13	117
Juni 9	57.13	22	41.00	140	53.432	148	30.81	148	7.232	141	80.61	100	14.13	33	54.96	160
19	56.91	16	39.60	177	53.284	121	29.33	181	7.091	100	79.61	133	13.80	25	53.36	199
29	56.75	10	37.83	208	53.163	91	27.52	209	6.991	56	78.28	161	13.55	17	51.37	233
Juli 9	56.65	4	35.75	236	53.072	57	25.43	230	6.935	10	76.67	186	13.38	9	49.04	261
19	56.61	3	33.39	258	53.015	21	23.13	246	6.925	37	74.81	208	13.29	1	46.43	284
29	56.64	10	30.81	273	52.994	18	20.67	253	6.962	84	72.73	224	13.30	10	43.59	300
Aug. 8	56.74	17	28.08	285	53.012	58	18.14	251	7.046	131	70.49	238	13.40	19	40.59	310
18	56.91	23	25.23	291	53.070	100	15.63	240	7.177	178	68.11	246	13.59	27	37.49	314
28	57.14	30	22.32	291	53.170	144	13.23	220	7.355	225	65.65	251	13.86	37	34.35	313
Sept. 7	57.44	36	19.41	285	53.314	187	11.03	190	7.580	270	63.14	252	14.23	45	31.22	304
17	57.80	42	16.56	274	53.501	229	9.13	153	7.850	315	60.62	248	14.68	53	28.18	290
27	58.22	48	13.82	258	53.730	269	7.60	107	8.165	357	58.14	240	15.21	61	25.28	269
Okt. 7	58.70	53	11.24	236	53.999	306	6.53	55	8.522	397	55.74	226	15.82	68	22.59	243
17	59.23	57	8.88	207	54.305	338	5.98	0	8.919	433	53.48	208	16.50	73	20.16	210
27	59.80	61	6.81	174	54.643	361	5.98	58	9.352	463	51.40	183	17.23	78	18.06	171
Nov. 6	60.41	65	5.07	135	55.004	376	6.56	115	9.815	483	49.57	153	18.01	81	16.35	128
16	61.06	65	3.72	90	55.380	380	7.71	170	10.298	495	48.04	118	18.82	83	15.07	80
26	61.71	64	2.82	43	55.760	373	9.41	220	10.793	494	46.86	79	19.65	82	14.27	28
Dez. 6	62.35	63	2.39	6	56.133	353	11.61	263	11.287	480	46.07	37	20.47	79	13.99	26
16	62.98	58	2.45	56	56.486	323	14.24	297	11.767	450	45.70	7	21.26	74	14.25	79
26	63.56	53	3.01	105	56.809	283	17.21	323	12.217	408	45.77	50	22.00	66	15.04	129
36	64.09		4.06		57.092		20.44		12.625		46.27		22.66		16.33	
Mittl. Ort	57.16		24.88		54.092		18.55		7.215		66.92		14.25		37.77	
sec δ, tg δ	2.231		+1.995		1.308		−0.844		1.624		+1.280		2.944		+2.769	

Tag	360) 10 Leonis min. AR.		Dekl.		366) ϑ Antliae AR.		Dekl.		367) ε Leonis AR.		Dekl.		369) υ Argus AR.		Dekl.	
1929	9h 29m		+36° 42′		9h 41m		−27° 26′		9h 41m		+24° 5′		9h 45m		−64° 44′	
	s	Δ	″	Δ	s	Δ	″	Δ	s	Δ	″	Δ	s	Δ	″	Δ
Jan. 1	53.231	307	47.11	3	2.330	251	24.88	295	49.712	285	66.81	72	20.93	37	12.24	345
11	53.538	257	47.14	36	2.581	206	27.83	298	49.997	241	66.09	42	21.30	28	15.69	370
21	53.795	200	47.50	69	2.787	156	30.81	293	50.238	192	65.67	13	21.58	19	19.39	383
31	53.995	140	48.19	96	2.943	103	33.74	281	50.430	138	65.54	16	21.77	9	23.22	387
Feb. 10	54.135	78	49.15	117	3.046	50	36.55	261	50.568	83	65.70	40	21.86	1	27.09	381
	12				15				15				16			
19	54.213	18	50.32	133	3.096	1	39.16	236	50.651	31	66.10	62	21.85	10	30.90	365
März 1	54.231	37	51.65	140	3.095	46	41.52	209	50.682	18	66.72	76	21.75	18	34.55	342
11	54.194	84	53.05	141	3.049	84	43.61	177	50.664	59	67.48	86	21.57	26	37.97	311
21	54.110	121	54.46	134	2.965	115	45.38	144	50.605	93	68.34	91	21.31	32	41.08	274
31	53.989	149	55.80	122	2.850	139	46.82	110	50.512	118	69.25	90	20.99	37	43.82	233
Apr. 10	53.840	165	57.02	105	2.711	153	47.92	74	50.394	134	70.15	84	20.62	40	46.15	187
20	53.675	172	58.07	83	2.558	161	48.66	38	50.260	140	70.99	76	20.22	43	48.02	137
30	53.503	169	58.90	59	2.397	161	49.04	2	50.120	139	71.75	64	19.79	44	49.39	86
Mai 10	53.334	157	59.49	33	2.236	156	49.06	31	49.981	131	72.39	51	19.35	45	50.25	34
20	53.177	139	59.82	7	2.080	144	48.75	65	49.850	117	72.90	36	18.90	43	50.59	19
30	53.038	116	59.89	18	1.936	129	48.10	97	49.733	99	73.26	20	18.47	42	50.40	71
Juni 9	52.922	88	59.71	43	1.807	111	47.13	125	49.634	77	73.46	5	18.05	38	49.69	122
19	52.834	58	59.28	67	1.696	88	45.88	151	49.557	52	73.51	11	17.67	35	48.47	168
29	52.776	25	58.61	89	1.608	64	44.37	172	49.505	26	73.40	26	17.32	30	46.79	209
Juli 9	52.751	9	57.72	108	1.544	36	42.65	188	49.479	1	73.14	42	17.02	23	44.70	244
19	52.760	43	56.64	127	1.508	8	40.77	198	49.480	30	72.72	57	16.79	17	42.26	273
29	52.803	77	55.37	143	1.500	23	38.79	201	49.510	59	72.15	73	16.62	10	39.53	293
Aug. 8	52.880	112	53.94	158	1.523	56	36.78	198	49.569	88	71.42	88	16.52	2	36.60	302
18	52.992	147	52.36	170	1.579	90	34.80	186	49.657	119	70.54	103	16.50	6	33.58	302
28	53.139	182	50.66	180	1.669	126	32.94	166	49.776	150	69.51	118	16.56	15	30.56	291
Sept. 7	53.321	217	48.86	189	1.795	163	31.28	140	49.926	181	68.33	133	16.71	23	27.65	268
17	53.538	252	46.97	195	1.958	199	29.88	105	50.107	213	67.00	147	16.94	32	24.97	235
27	53.790	286	45.02	197	2.157	236	28.83	64	50.320	246	65.53	160	17.26	40	22.62	192
Okt. 7	54.076	318	43.05	196	2.393	269	28.19	19	50.566	276	63.93	170	17.66	46	20.70	140
17	54.394	348	41.09	191	2.662	298	28.00	29	50.842	305	62.23	177	18.12	52	19.30	81
27	54.742	372	39.18	182	2.960	323	28.29	79	51.147	329	60.46	181	18.64	56	18.49	17
Nov. 6	55.114	391	37.36	166	3.283	341	29.08	128	51.476	348	58.65	179	19.20	59	18.32	49
16	55.505	402	35.70	146	3.624	348	30.36	173	51.824	360	56.86	173	19.79	60	18.81	115
26	55.907	402	34.24	121	3.972	347	32.09	214	52.184	363	55.13	160	20.39	58	19.96	178
Dez. 6	56.309	391	33.03	91	4.319	335	34.23	248	52.547	356	53.53	142	20.97	54	21.74	235
16	56.700	369	32.12	57	4.654	312	36.71	275	52.903	338	52.11	119	21.51	50	24.09	285
26	57.069	335	31.55	23	4.966	279	39.46	292	53.241	309	50.92	93	22.01	42	26.94	327
36	57.404		31.32		5.245		42.38		53.550		49.99		22.43		30.21	
Mittl. Ort	52.842		49.55		2.130		37.40		49.520		67.08		19.68		32.16	
sec δ, tg δ	1.247		+0.746		1.127		−0.519		1.096		+0.447		2.344		−2.120	

Tag	368) υ Ursae maj. AR.		Dekl.		370) 6 Sextantis AR.		Dekl.		372) Grb 1586 AR.		Dekl.		378) π Leonis AR.		Dekl.	
1929	9h 45m		+59° 22'		9h 47m		−3° 54'		9h 52m		+73° 12'		9h 56m		+8° 22'	
	s		"		s		"		s		"		s		"	
Jan. 1	58.496	457	18.85	97	39.474	257	29.06	209	7.02	75	57.67	146	27.853	272	71.37	158
11	58.953	386	19.82	141	39.731	216	31.15	197	7.77	63	59.13	193	28.125	233	69.79	136
21	59.339	305	21.23	180	39.947	172	33.12	179	8.40	49	61.06	232	28.358	188	68.43	111
31	59.644	215	23.03	209	40.119	122	34.91	158	8.89	34	63.38	262	28.546	139	67.32	86
Feb. 10	59.859	123	25.12	230	40.241	73	36.49	135	9.23	19	66.00	281	28.685	89	66.46	61
	17				17				18				19			
19	59.982	31	27.42	241	40.314	26	37.84	109	9.42	3	68.81	288	28.774	41	65.85	36
März 1	60.013	56	29.83	240	40.340	17	38.93	85	9.45	12	71.69	283	28.815	4	65.49	14
11	59.957	133	32.23	230	40.323	53	39.78	61	9.33	26	74.52	265	28.811	42	65.35	5
21	59.824	197	34.53	209	40.270	84	40.39	38	9.07	37	77.17	239	28.769	74	65.40	22
31	59.627	247	36.62	182	40.186	105	40.77	17	8.70	47	79.56	202	28.695	98	65.62	33
Apr. 10	59.380	283	38.44	146	40.081	119	40.94	2	8.23	54	81.58	158	28.597	113	65.95	43
20	59.097	302	39.90	107	39.962	126	40.92	20	7.69	59	83.16	110	28.484	122	66.38	49
30	58.795	306	40.97	63	39.836	126	40.72	35	7.10	60	84.26	58	28.362	122	66.87	54
Mai 10	58.489	297	41.60	19	39.710	119	40.37	50	6.50	59	84.84	5	28.240	117	67.41	55
20	58.192	277	41.79	26	39.591	109	39.87	62	5.91	56	84.89	49	28.123	107	67.96	56
30	57.915	246	41.53	69	39.482	95	39.25	73	5.35	52	84.40	99	28.016	93	68.52	55
Juni 9	57.669	207	40.84	110	39.387	76	38.52	82	4.83	45	83.41	147	27.923	76	69.07	52
19	57.462	161	39.74	149	39.311	57	37.70	89	4.38	38	81.94	190	27.847	56	69.59	49
29	57.301	112	38.25	182	39.254	35	36.81	93	4.00	29	80.04	229	27.791	35	70.08	43
Juli 9	57.189	58	36.43	212	39.219	11	35.88	95	3.71	19	77.75	262	27.756	12	70.51	36
19	57.131	3	34.31	237	39.208	14	34.93	92	3.52	9	75.13	289	27.744	13	70.87	27
29	57.128	55	31.94	258	39.222	39	34.01	86	3.43	2	72.24	310	27.757	38	71.14	16
Aug. 8	57.183	112	29.36	273	39.261	66	33.15	76	3.45	12	69.14	325	27.795	65	71.30	3
18	57.295	169	26.63	283	39.327	95	32.39	61	3.57	23	65.89	333	27.860	93	71.33	14
28	57.464	228	23.80	289	39.422	124	31.78	41	3.80	34	62.56	334	27.953	122	71.19	31
Sept. 7	57.692	285	20.91	289	39.546	156	31.37	18	4.14	44	59.22	329	28.075	152	70.88	52
17	57.977	340	18.02	283	39.702	186	31.19	8	4.58	54	55.93	317	28.227	184	70.36	75
27	58.317	394	15.19	272	39.888	218	31.27	39	5.12	63	52.76	299	28.411	215	69.61	97
Okt. 7	58.711	445	12.47	255	40.106	249	31.66	71	5.75	72	49.77	274	28.626	247	68.64	120
17	59.156	491	9.92	232	40.355	276	32.37	103	6.47	80	47.03	242	28.873	276	67.44	142
27	59.647	530	7.60	203	40.631	300	33.40	133	7.27	87	44.61	204	29.149	301	66.02	162
Nov. 6	60.177	559	5.57	168	40.931	319	34.73	162	8.14	91	42.57	159	29.450	321	64.40	177
16	60.736	578	3.89	128	41.250	329	36.35	185	9.05	94	40.98	110	29.771	335	62.63	188
26	61.314	581	2.61	82	41.579	332	38.20	203	9.99	95	39.88	56	30.106	339	60.75	193
Dez. 6	61.895	569	1.79	34	41.911	325	40.23	215	10.94	93	39.32	0	30.445	335	58.82	191
16	62.464	541	1.45	15	42.236	307	42.38	219	11.87	88	39.32	56	30.780	319	56.91	184
26	63.005	495	1.60	65	42.543	280	44.57	217	12.75	80	39.88	112	31.099	295	55.07	171
36	63.500		2.25		42.823		46.74		13.55		41.00		31.394		53.36	
Mittl. Ort	57.468		25.41		39.410		35.68		4.59		65.72		27.809		68.06	
sec δ, tg δ	1.963		+1.689		1.002		−0.068		3.463		+3.316		1.011		+0.147	

Tag	379) η Leonis				380) α Leonis				381) λ Hydrae				382) ϱ Velorum			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
1929	$10^h\ 3^m$		$+17^\circ\ 6'$		$10^h\ 4^m$		$+12^\circ\ 18'$		$10^h\ 7^m$		$-12^\circ\ 0'$		$10^h\ 11^m$		$-41^\circ\ 45'$	
	s		″		s		″		s		″		s		″	
Jan. 1	27.935	288	35.26	120	35.619	282	55.49	142	7.589	269	0.06	243	45.224	301	53.82	317
11	28.223	249	34.06	92	35.901	243	54.07	118	7.858	230	2.49	237	45.525	252	56.99	333
21	28.472	203	33.14	63	36.144	198	52.89	92	8.088	186	4.86	225	45.777	197	60.32	340
31	28.675	153	32.51	35	36.342	150	51.97	64	8.274	137	7.11	207	45.974	138	63.72	337
Feb. 10	28.828	102	32.16	7	36.492	100	51.33	38	8.411	89	9.18	186	46.112	79	67.09	328
20	[21] 28.930	51	32.09	17	[21] 36.592	50	50.95	13	[22] 8.500	41	11.04	161	[23] 46.191	21	70.37	310
März 1	28.981	5	32.26	37	36.642	5	50.82	9	8.541	2	12.65	136	46.212	31	73.47	285
11	28.986	37	32.63	53	36.647	35	50.91	27	8.539	41	14.01	109	46.181	78	76.32	257
21	28.949	70	33.16	64	36.612	69	51.18	41	8.498	72	15.10	83	46.103	118	78.89	223
31	28.879	96	33.80	71	36.543	93	51.59	51	8.426	96	15.93	57	45.985	150	81.12	186
Apr. 10	28.783	114	34.51	72	36.450	111	52.10	57	8.330	114	16.50	32	45.835	173	82.98	147
20	28.669	123	35.23	71	36.339	120	52.67	60	8.216	123	16.82	8	45.662	189	84.45	105
30	28.546	126	35.94	67	36.219	122	53.27	60	8.093	126	16.90	15	45.473	197	85.50	63
Mai 10	28.420	122	36.61	60	36.097	118	53.87	59	7.967	124	16.75	36	45.276	200	86.13	19
20	28.298	112	37.21	51	35.979	110	54.46	55	7.843	116	16.39	55	45.076	195	86.32	23
30	28.186	99	37.72	42	35.869	96	55.01	49	7.727	106	15.84	74	44.881	185	86.09	65
Juni 9	28.087	81	38.14	31	35.773	80	55.50	43	7.621	91	15.10	90	44.696	171	85.44	105
19	28.006	61	38.45	19	35.693	61	55.93	36	7.530	74	14.20	103	44.525	152	84.39	142
29	27.945	40	38.64	7	35.632	40	56.29	27	7.456	55	13.17	114	44.373	129	82.97	175
Juli 9	27.905	16	38.71	6	35.592	18	56.56	17	7.401	33	12.03	121	44.244	101	81.22	201
19	27.889	9	38.65	20	35.574	7	56.73	5	7.368	10	10.82	124	44.143	70	79.21	223
29	27.898	35	38.45	34	35.581	32	56.78	7	7.358	15	9.58	122	44.073	34	76.98	237
Aug. 8	27.933	62	38.11	50	35.613	58	56.71	22	7.373	42	8.36	115	44.039	4	74.61	243
18	27.995	90	37.61	67	35.671	86	56.49	38	7.415	71	7.21	102	44.043	47	72.18	241
28	28.085	120	36.94	84	35.757	116	56.11	57	7.486	103	6.19	85	44.090	91	69.77	228
Sept. 7	28.205	152	36.10	103	35.873	146	55.54	76	7.589	135	5.34	61	44.181	138	67.49	207
17	28.357	185	35.07	121	36.019	179	54.78	97	7.724	169	4.73	33	44.319	186	65.42	176
27	28.542	217	33.86	140	36.198	211	53.81	117	7.893	203	4.40	0	44.505	233	63.66	137
Okt. 7	28.759	249	32.46	156	36.409	244	52.64	138	8.096	237	4.40	35	44.738	278	62.29	90
17	29.008	280	30.90	171	36.653	273	51.26	157	8.333	268	4.75	73	45.016	318	61.39	39
27	29.288	308	29.19	182	36.926	301	49.69	173	8.601	295	5.48	111	45.334	353	61.00	17
Nov. 6	29.596	329	27.37	189	37.227	322	47.96	184	8.896	316	6.59	146	45.687	377	61.17	75
16	29.925	344	25.48	190	37.549	338	46.12	191	9.212	331	8.05	179	46.064	392	61.92	131
26	30.269	351	23.58	186	37.887	344	44.21	191	9.543	336	9.84	206	46.456	396	63.23	183
Dez. 6	30.620	348	21.72	175	38.231	340	42.30	186	9.879	331	11.90	226	46.852	386	65.06	232
16	30.968	334	19.97	158	38.571	327	40.44	175	10.210	316	14.16	239	47.238	364	67.38	272
26	31.302	310	18.39	137	38.898	304	38.69	158	10.526	291	16.55	246	47.602	330	70.10	303
36	31.612		17.02		39.202		37.11		10.817		19.01		47.932		73.13	
Mittl. Ort	27.880		34.36		35.595		53.35		7.612		8.96		45.074		70.61	
sec δ, tg δ	1.046		+0.308		1.024		+0.218		1.022		−0.213		1.341		−0.893	

Scheinbare Sternörter 1929

Tag	384) ζ Leonis AR.		384) ζ Leonis Dekl.		383) λ Ursae maj. AR.		383) λ Ursae maj. Dekl.		386) μ Ursae maj. AR.		386) μ Ursae maj. Dekl.		387) 30 H. Urs. maj. AR.		387) 30 H. Urs. maj. Dekl.	
1929	10h 12m		+23° 45′		10h 12m		+43° 15′		10h 18m		+41° 51′		10h 19m		+65° 55′	
	s		″		s		″		s		″		s		″	
Jan. 1	44.793	306	77.50	93	49.721	368	64.93	3	6.715	365	20.41	14	3.30	59	25.58	87
11	45.099	267	76.57	61	50.089	321	64.90	41	7.080	320	20.27	29	3.89	52	26.45	139
21	45.366	221	75.96	29	50.410	265	65.31	80	7.400	267	20.56	70	4.41	43	27.84	183
31	45.587	170	75.67	3	50.675	203	66.11	116	7.667	206	21.26	106	4.84	32	29.67	221
Feb. 10	45.757	116	75.70	32	50.878	137	67.27	145	7.873	142	22.32	136	5.16	22	31.88	248
20	[23] 45.873	64	76.02	56	[23] 51.015	71	68.72	167	[25] 8.015	78	23.68	159	[25] 5.38	10	34.36	265
März 1	45.937	14	76.58	76	51.086	10	70.39	179	8.093	17	25.27	173	5.48	1	37.01	270
11	45.951	29	77.34	89	51.096	47	72.18	183	8.110	38	27.00	179	5.47	11	39.71	263
21	45.922	66	78.23	97	51.049	94	74.01	179	8.072	86	28.79	176	5.36	20	42.34	246
31	45.856	95	79.20	100	50.955	133	75.80	166	7.986	123	30.55	165	5.16	27	44.80	219
Apr. 10	45.761	115	80.20	97	50.822	160	77.46	147	7.863	151	32.20	148	4.89	33	46.99	184
20	45.646	127	81.17	89	50.662	177	78.93	123	7.712	168	33.68	126	4.56	37	48.83	143
30	45.519	132	82.06	79	50.485	185	80.16	94	7.544	177	34.94	97	4.19	39	50.26	97
Mai 10	45.387	129	82.85	65	50.300	182	81.10	62	7.367	175	35.91	68	3.80	39	51.23	48
20	45.258	120	83.50	50	50.118	172	81.72	29	7.192	168	36.59	35	3.41	38	51.71	1
30	45.138	108	84.00	33	49.946	157	82.01	5	7.024	152	36.94	2	3.03	36	51.70	51
Juni 9	45.030	90	84.33	16	49.789	135	81.96	39	6.872	133	36.96	30	2.67	32	51.19	98
19	44.940	71	84.49	2	49.654	108	81.57	70	6.739	108	36.66	61	2.35	28	50.21	143
29	44.869	50	84.47	19	49.546	80	80.87	101	6.631	81	36.05	92	2.07	23	48.78	184
Juli 9	44.819	25	84.28	37	49.466	47	79.86	129	6.550	50	35.13	121	1.84	16	46.94	221
19	44.794	0	83.91	54	49.419	14	78.57	155	6.500	18	33.92	146	1.68	10	44.73	252
29	44.794	26	83.37	73	49.405	21	77.02	178	6.482	15	32.46	170	1.58	3	42.21	279
Aug. 8	44.820	55	82.64	90	49.426	58	75.24	198	6.497	51	30.76	191	1.55	4	39.42	300
18	44.875	84	81.74	108	49.484	97	73.26	216	6.548	88	28.85	209	1.59	11	36.42	315
28	44.959	116	80.66	126	49.581	136	71.10	230	6.636	127	26.76	224	1.70	19	33.27	324
Sept. 7	45.075	148	79.40	142	49.717	177	68.80	240	6.763	167	24.52	236	1.89	26	30.03	327
17	45.223	182	77.98	159	49.894	218	66.40	248	6.930	208	22.16	245	2.15	33	26.76	324
27	45.405	217	76.39	173	50.112	260	63.92	250	7.138	249	19.71	249	2.48	40	23.52	314
Okt. 7	45.622	251	74.66	185	50.372	301	61.42	249	7.387	290	17.22	248	2.88	48	20.38	298
17	45.873	284	72.81	195	50.673	340	58.93	241	7.677	329	14.74	243	3.36	54	17.40	274
27	46.157	313	70.86	200	51.013	374	56.52	228	8.006	364	12.31	232	3.90	60	14.66	243
Nov. 6	46.470	338	68.86	200	51.387	404	54.24	209	8.370	393	9.99	214	4.50	64	12.23	206
16	46.808	355	66.86	194	51.791	424	52.15	183	8.763	415	7.85	190	5.14	68	10.17	163
26	47.163	364	64.92	183	52.215	435	50.32	152	9.178	427	5.95	160	5.82	70	8.54	114
Dez. 6	47.527	363	63.09	166	52.650	433	48.80	116	9.605	427	4.35	125	6.52	70	7.40	60
16	47.890	350	61.43	142	53.083	420	47.64	75	10.032	414	3.10	85	7.22	67	6.80	4
26	48.240	328	60.01	114	53.503	392	46.89	32	10.446	389	2.25	43	7.89	63	6.76	51
36	48.568		58.87		53.895		46.57		10.835		1.82		8.52		7.27	
Mittl. Ort	44.728		78.54		49.385		70.34		6.432		25.77		2.02		34.61	
sec δ, tg δ	1.093		+0.440		1.373		+0.941		1.343		+0.896		2.451		+2.238	

Tag	389) μ Hydrae AR.		Dekl.		391) J Carinae AR.		Dekl.		390) 31 Leonis min. AR.		Dekl.		392) Lac. α Antliae AR.		Dekl.	
1929	$10^h 22^m$		$-16° 28'$		$10^h 22^m$		$-73° 39'$		$10^h 23^m$		$+37° 3'$		$10^h 23^m$		$-30° 42'$	
Jan. 1	39.267	281	13.75	257	60.77	61	48.64	310	47.244	350	73.35	40	53.986	293	6.54	292
11	39.548	243	16.32	255	61.38	49	51.74	347	47.594	308	72.95	0	54.279	251	9.46	302
21	39.791	200	18.87	247	61.87	36	55.21	372	47.902	258	72.95	40	54.530	204	12.48	304
31	39.991	152	21.34	233	62.23	23	58.93	388	48.160	202	73.35	76	54.734	152	15.52	297
Feb. 10	40.143	103	23.67	213	62.46	9	62.81	393	48.362	142	74.11	108	54.886	100	18.49	284
20	40.246	56	25.80	190	62.55	5	66.74	389	48.504	82	75.19	132	54.986	49	21.33	264
März 1	(26) 40.302	11	27.70	164	(26) 62.50	17	70.63	377	(26) 48.586	25	76.51	149	(26) 55.035	0	23.97	240
11	40.313	28	29.34	138	62.33	28	74.40	355	48.611	26	78.00	157	55.035	42	26.37	213
21	40.285	62	30.72	110	62.05	40	77.95	326	48.585	71	79.57	159	54.993	77	28.50	181
31	40.223	87	31.82	83	61.65	48	81.21	292	48.514	106	81.16	153	54.916	107	30.31	148
Apr. 10	40.136	107	32.65	55	61.17	56	84.13	251	48.408	133	82.69	140	54.809	128	31.79	114
20	40.029	119	33.20	28	60.61	62	86.64	206	48.275	150	84.09	121	54.681	143	32.93	78
30	39.910	125	33.48	3	59.99	66	88.70	157	48.125	158	85.30	99	54.538	151	33.71	43
Mai 10	39.785	125	33.51	22	59.33	68	90.27	105	47.967	158	86.29	73	54.387	154	34.14	7
20	39.660	121	33.29	46	58.65	70	91.32	51	47.809	151	87.02	45	54.233	150	34.21	28
30	39.539	112	32.83	68	57.95	69	91.83	4	47.658	138	87.47	16	54.083	143	33.93	63
Juni 9	39.427	101	32.15	87	57.26	67	91.79	57	47.520	120	87.63	14	53.940	131	33.30	94
19	39.326	86	31.28	105	56.59	63	91.22	110	47.400	100	87.49	43	53.809	117	32.36	123
29	39.240	69	30.23	120	55.96	58	90.12	158	47.300	75	87.06	70	53.692	98	31.13	149
Juli 9	39.171	50	29.03	130	55.38	50	88.54	203	47.225	48	86.36	97	53.594	76	29.64	170
19	39.121	27	27.73	136	54.88	41	86.51	241	47.177	19	85.39	121	53.518	51	27.94	186
29	39.094	2	26.37	138	54.47	31	84.10	271	47.158	11	84.18	145	53.467	22	26.08	195
Aug. 8	39.092	24	24.99	134	54.16	19	81.39	292	47.169	44	82.73	166	53.445	8	24.13	198
18	39.116	54	23.65	124	53.97	7	78.47	305	47.213	78	81.07	184	53.453	43	22.15	194
28	39.170	86	22.41	107	53.90	7	75.42	305	47.291	113	79.23	202	53.496	80	20.21	180
Sept. 7	39.256	120	21.34	85	53.97	20	72.37	294	47.404	151	77.21	216	53.576	119	18.41	159
17	39.376	155	20.49	58	54.17	34	69.43	272	47.555	190	75.05	227	53.695	161	16.82	130
27	39.531	192	19.91	25	54.51	47	66.71	239	47.745	229	72.78	235	53.856	202	15.52	94
Okt. 7	39.723	228	19.66	13	54.98	58	64.32	195	47.974	269	70.43	238	54.058	243	14.58	52
17	39.951	262	19.79	53	55.56	69	62.37	143	48.243	306	68.05	237	54.301	281	14.06	5
27	40.213	291	20.32	92	56.25	77	60.94	83	48.549	341	65.68	231	54.582	313	14.01	44
Nov. 6	40.504	316	21.24	132	57.02	83	60.11	18	48.890	370	63.37	219	54.895	339	14.45	94
16	40.820	334	22.56	169	57.85	86	59.93	48	49.260	391	61.18	199	55.234	356	15.39	143
26	41.154	341	24.25	201	58.71	85	60.41	114	49.651	404	59.19	174	55.590	363	16.82	188
Dez. 6	41.495	338	26.26	226	59.56	83	61.55	177	50.055	405	57.45	143	55.953	359	18.70	227
16	41.833	325	28.52	245	60.39	76	63.32	235	50.460	394	56.02	108	56.312	344	20.97	260
26	42.158	303	30.97	256	61.15	68	65.67	286	50.854	371	54.94	68	56.656	317	23.57	283
36	42.461		33.53		61.83		68.53		51.225		54.26		56.973		26.40	
Mittl. Ort	39.366		24.04		59.32		71.39		47.072		77.93		54.035		20.84	
sec δ, tg δ	1.043		−0.296		3.557		−3.413		1.253		+0.756		1.163		−0.594	

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Tag	393) *s* Carinae AR.		Dekl.		394) 36 Ursae maj. AR.		Dekl.		395) 9 H. Draconis AR.		Dekl.		404) 33 Sextantis AR.		Dekl.	
1929	10h 25m		−58° 22′		10h 26m		+56° 20′		10h 29m		+76° 4′		10h 37m		−1° 21′	
Jan. 1	16.455	390	14.91	319	6.439	467	34.84	41	9.25	95	36.16	110	47.327	291	58.76	208
11	16.845	325	18.10	348	6.906	413	35.25	90	10.20	84	37.26	165	47.618	258	60.84	194
21	17.170	252	21.58	367	7.319	344	36.15	136	11.04	69	38.91	212	47.876	217	62.78	176
31	17.422	174	25.25	376	7.663	268	37.51	176	11.73	53	41.03	250	48.093	173	64.54	154
Feb. 10	17.596	96	29.01	375	7.931	185	39.27	205	12.26	35	43.53	277	48.266	125	66.08	129
20	26 17.692	20	32.76	366	27 8.116	101	41.32	227	27 12.61	17	46.30	294	48.391	78	67.37	103
März 1*)	17.712	52	36.42	348	8.217	20	43.59	238	12.78	2	49.24	297	2 48.469	35	68.40	78
11	17.660	118	39.90	323	8.237	56	45.97	238	12.76	19	52.21	288	48.504	6	69.18	54
21	17.542	174	43.13	291	8.181	121	48.35	227	12.57	34	55.09	268	48.498	39	69.72	32
31	17.368	222	46.04	255	8.060	176	50.62	208	12.23	48	57.77	237	48.459	66	70.04	12
Apr. 10	17.146	260	48.59	214	7.884	218	52.70	181	11.75	59	60.14	197	48.393	87	70.16	6
20	16.886	289	50.73	170	7.666	246	54.51	147	11.16	66	62.11	152	48.306	100	70.10	21
30	16.597	308	52.43	122	7.420	262	55.98	108	10.50	71	63.63	100	48.206	108	69.89	34
Mai 10	16.289	320	53.65	72	7.158	266	57.06	66	9.79	73	64.63	47	48.098	109	69.55	45
20	15.969	322	54.37	22	6.892	258	57.72	23	9.06	72	65.10	9	47.989	107	69.10	54
30	15.647	316	54.59	28	6.634	241	57.95	21	8.34	69	65.01	63	47.882	100	68.56	62
Juni 9	15.331	302	54.31	78	6.393	217	57.74	65	7.65	64	64.38	115	47.782	90	67.94	67
19	15.029	280	53.53	125	6.176	186	57.09	105	7.01	57	63.23	163	47.692	77	67.27	70
29	14.749	251	52.28	167	5.990	148	56.04	144	6.44	48	61.60	209	47.615	62	66.57	72
Juli 9	14.498	215	50.61	205	5.842	108	54.60	180	5.96	38	59.51	248	47.553	45	65.85	72
19	14.283	170	48.56	238	5.734	63	52.80	210	5.58	27	57.03	282	47.508	25	65.13	67
29	14.113	119	46.18	262	5.671	16	50.70	238	5.31	16	54.21	310	47.483	4	64.46	61
Aug. 8	13.994	62	43.56	278	5.655	33	48.32	260	5.15	3	51.11	332	47.479	21	63.85	51
18	13.932	1	40.78	284	5.688	85	45.72	279	5.12	10	47.79	346	47.500	47	63.34	36
28	13.933	69	37.94	280	5.773	137	42.93	292	5.22	23	44.33	355	47.547	76	62.98	19
Sept. 7	14.002	139	35.14	265	5.910	192	40.01	300	5.45	35	40.78	355	47.623	108	62.79	2
17	14.141	211	32.49	239	6.102	246	37.01	302	5.80	48	37.23	350	47.731	142	62.81	27
27	14.352	280	30.10	203	6.348	302	33.99	299	6.28	61	33.73	336	47.873	176	63.08	55
Okt. 7	14.632	346	28.07	158	6.650	356	31.00	290	6.89	72	30.37	315	48.049	212	63.63	83
17	14.978	405	26.49	104	7.006	407	28.10	274	7.61	83	27.22	287	48.261	246	64.46	112
27	15.383	453	25.45	46	7.413	452	25.36	251	8.44	93	24.35	252	48.507	278	65.58	141
Nov. 6	15.836	490	24.99	17	7.865	492	22.85	221	9.37	101	21.83	209	48.785	304	66.99	166
16	16.326	510	25.16	81	8.357	521	20.64	185	10.38	106	19.74	160	49.089	324	68.65	189
26	16.836	514	25.97	143	8.878	537	18.79	144	11.44	110	18.14	105	49.413	335	70.54	205
Dez. 6	17.350	502	27.40	202	9.415	539	17.35	96	12.54	110	17.09	47	49.748	337	72.59	216
16	17.852	473	29.42	254	9.954	526	16.39	45	13.64	107	16.62	12	50.085	329	74.75	219
26	18.325	427	31.96	298	10.480	495	15.94	6	14.71	101	16.74	73	50.414	310	76.94	216
36	18.752		34.94		10.975		16.00		15.72		17.47		50.724		79.10	
Mittl. Ort	16.082		35.55		5.781		43.07		6.59		46.47		47.504		64.46	
sec δ, tg δ	1.907		−1.624		1.804		+1.502		4.157		+4.035		1.000		−0.024	

*) Bei Stern 404) lies März 2

Tag	406) ϑ Argus AR.		406) ϑ Argus Dekl.		407) 42 Leonis min. AR.		407) 42 Leonis min. Dekl.		408) μ Argus AR.		408) μ Argus Dekl.		409) l Leonis AR.		409) l Leonis Dekl.	
1929	$10^h 40^m$		—64° 0′		$10^h 41^m$		+31° 3′		$10^h 43^m$		—49° 2′		$10^h 45^m$		+10° 54′	
	s		″		s		″		s		″		s		″	
Jan. 1	25.56	47	57.50	305	55.345	341	20.62	82	42.540	360	21.94	304	31.458	305	78.44	166
11	26.03	39	60.55	339	55.686	306	19.80	43	42.900	311	24.98	330	31.763	273	76.78	141
21	26.42	31	63.94	364	55.992	260	19.37	3	43.211	254	28.28	347	32.036	233	75.37	114
31	26.73	23	67.58	379	56.252	210	19.34	33	43.465	191	31.75	354	32.269	188	74.23	85
Feb. 10	26.96	13	71.37	384	56.462	155	19.67	66	43.656	128	35.29	352	32.457	140	73.38	55
20	27.09	5	75.21	380	56.617	100	20.33	95	43.784	65	38.81	342	32.597	92	72.83	29
März 2	2 27.14	4	79.01	366	3 56.717	46	21.28	117	3 43.849	6	42.23	325	4 32.689	46	72.54	3
11	27.10	12	82.67	346	56.763	2	22.45	131	43.855	49	45.48	300	32.735	4	72.51	19
21	26.98	19	86.13	318	56.761	45	23.76	138	43.806	96	48.48	271	32.739	31	72.70	36
31	26.79	25	89.31	285	56.716	79	25.14	139	43.710	137	51.19	238	32.708	60	73.06	50
Apr. 10	26.54	29	92.16	245	56.637	106	26.53	133	43.573	169	53.57	199	32.648	82	73.56	59
20	26.25	34	94.61	202	56.531	124	27.86	121	43.404	194	55.56	159	32.566	98	74.15	64
30	25.91	37	96.63	155	56.407	135	29.07	104	43.210	212	57.15	115	32.468	106	74.79	66
Mai 10	25.54	39	98.18	105	56.272	138	30.11	84	42.998	224	58.30	70	32.362	109	75.45	66
20	25.15	40	99.23	53	56.134	134	30.95	62	42.774	227	59.00	24	32.253	107	76.11	62
30	24.75	39	99.76	2	56.000	126	31.57	37	42.547	225	59.24	21	32.146	101	76.73	58
Juni 9	24.36	39	99.78	50	55.874	114	31.94	12	42.322	217	59.03	66	32.045	91	77.31	50
19	23.97	37	99.28	101	55.760	97	32.06	13	42.105	204	58.37	108	31.954	79	77.81	43
29	23.60	34	98.27	147	55.663	77	31.93	38	41.901	185	57.29	148	31.875	63	78.24	34
Juli 9	23.26	30	96.80	190	55.586	56	31.55	63	41.716	160	55.81	183	31.812	47	78.58	22
19	22.96	25	94.90	227	55.530	32	30.92	88	41.556	129	53.98	212	31.765	27	78.80	10
29	22.71	19	92.63	256	55.498	6	30.04	110	41.427	93	51.86	235	31.738	6	78.90	3
Aug. 8	22.52	12	90.07	278	55.492	23	28.94	132	41.334	52	49.51	249	31.732	19	78.87	19
18	22.40	4	87.29	289	55.515	53	27.62	154	41.282	4	47.02	255	31.751	44	78.68	36
28	22.36	3	84.40	291	55.568	87	26.08	172	41.278	47	44.47	252	31.795	74	78.32	56
Sept. 7	22.39	12	81.49	281	55.655	121	24.36	190	41.325	102	41.95	237	31.869	105	77.76	76
17	22.51	21	78.68	260	55.776	159	22.46	206	41.427	160	39.58	214	31.974	138	77.00	98
27	22.72	29	76.08	228	55.935	197	20.40	218	41.587	217	37.44	181	32.112	174	76.02	121
Okt. 7	23.01	38	73.80	186	56.132	236	18.22	228	41.804	272	35.63	139	32.286	210	74.81	143
17	23.39	45	71.94	136	56.368	274	15.94	233	42.076	325	34.24	89	32.496	245	73.38	163
27	23.84	51	70.58	78	56.642	310	13.61	233	42.401	369	33.35	34	32.741	277	71.75	182
Nov. 6	24.35	56	69.80	16	56.952	340	11.28	228	42.770	405	33.01	25	33.018	305	69.93	196
16	24.91	59	69.64	49	57.292	364	9.00	216	43.175	429	33.26	84	33.323	328	67.97	205
26	25.50	60	70.13	113	57.656	380	6.84	198	43.604	440	34.10	142	33.651	342	65.92	208
Dez. 6	26.10	59	71.26	175	58.036	385	4.86	172	44.044	437	35.52	196	33.993	345	63.84	206
16	26.69	55	73.01	231	58.421	378	3.14	142	44.481	420	37.48	244	34.338	340	61.78	196
26	27.24	51	75.32	280	58.799	360	1.72	108	44.901	388	39.92	285	34.678	323	59.82	180
36	27.75		78.12		59.159		0.64		45.289		42.77		35.001		58.02	
Mittl. Ort	25.19		79.58		55.340		24.38		42.580		41.22		31.630		76.62	
sec δ, tg δ	2.283		—2.052		1.167		+0.602		1.526		—1.152		1.018		+0.193	

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Tag	415) *i* Velorum AR.	Δ	415) Dekl.	Δ	416) β Ursae maj. AR.	Δ	416) Dekl.	Δ	417) α Ursae maj. AR.	Δ	417) Dekl.	Δ	418) γ Leonis AR.	Δ	418) Dekl.	Δ
1929	$10^h\ 56^m$		$-41°\ 50'$		$10^h\ 57^m$		$+56°\ 45'$		$10^h\ 59^m$		$+62°\ 7'$		$11^h\ 1^m$		$+7°\ 42'$	
	s		"		s		"		s		"		s		"	
Jan. 1	53.328	345	23.48	291	34.662	496	38.27	6	22.42	57	54.07	24	21.093	310	75.31	182
11	53.673	304	26.39	313	35.158	450	38.33	60	22.99	52	54.31	79	21.403	279	73.49	161
21	53.977	255	29.52	327	35.608	389	38.93	111	23.51	44	55.10	132	21.682	242	71.88	136
31	54.232	201	32.79	331	35.997	318	40.04	156	23.95	36	56.42	177	21.924	199	70.52	107
Feb. 10	54.433	144	36.10	328	36.315	239	41.60	194	24.31	27	58.19	215	22.123	153	69.45	79
20	54.577	88	39.38	317	36.554	156	43.54	222	24.58	18	60.34	243	22.276	106	68.66	51
März 2	[7] 54.665	35	42.55	299	[7] 36.710	73	45.76	240	[7] 24.76	8	62.77	259	[8] 22.382	61	68.15	25
11	54.700	15	45.54	276	36.783	4	48.16	247	24.84	1	65.36	264	22.443	19	67.90	1
21	54.685	58	48.30	247	36.779	75	50.63	243	24.83	10	68.00	259	22.462	17	67.89	19
31	54.627	95	50.77	216	36.704	135	53.06	230	24.73	17	70.59	242	22.445	46	68.08	35
April 10	54.532	124	52.93	181	36.569	185	55.36	207	24.56	23	73.01	216	22.399	70	68.43	47
20	54.408	148	54.74	143	36.384	222	57.43	177	24.33	27	75.17	183	22.329	87	68.90	55
30	54.260	165	56.17	104	36.162	247	59.20	141	24.06	30	77.00	142	22.242	98	69.45	61
Mai 10	54.095	176	57.21	63	35.915	261	60.61	99	23.76	32	78.42	99	22.144	103	70.06	63
20	53.919	180	57.84	21	35.654	263	61.60	56	23.44	33	79.41	51	22.041	104	70.69	63
30	53.739	181	58.05	19	35.391	255	62.16	12	23.11	32	79.92	3	21.937	100	71.32	60
Juni 9	53.558	177	57.86	59	35.136	240	62.28	34	22.79	30	79.95	45	21.837	94	71.92	57
19	53.381	166	57.27	98	34.896	217	61.94	78	22.49	28	79.50	92	21.743	84	72.49	51
29	53.215	152	56.29	133	34.679	188	61.16	121	22.21	24	78.58	137	21.659	72	73.00	43
Juli 9	53.063	133	54.96	164	34.491	153	59.95	160	21.97	20	77.21	179	21.587	56	73.43	35
19	52.930	110	53.32	190	34.338	114	58.35	196	21.77	15	75.42	216	21.531	40	73.78	25
29	52.820	80	51.42	210	34.224	71	56.39	228	21.62	10	73.26	249	21.491	20	74.03	12
Aug. 8	52.740	46	49.32	223	34.153	25	54.11	256	21.52	5	70.77	277	21.471	2	74.15	3
18	52.694	7	47.09	228	34.128	25	51.55	280	21.47	2	68.00	301	21.473	27	74.12	19
28	52.687	36	44.81	224	34.153	77	48.75	298	21.49	7	64.99	319	21.500	55	73.93	39
Sept. 7	52.723	83	42.57	210	34.230	132	45.77	311	21.56	14	61.80	331	21.555	87	73.54	59
17	52.806	134	40.47	188	34.362	190	42.66	320	21.70	21	58.49	336	21.642	121	72.95	82
27	52.940	185	38.59	156	34.552	248	39.46	320	21.91	28	55.13	335	21.763	157	72.13	106
Okt. 7	53.125	236	37.03	117	34.800	307	36.26	316	22.19	34	51.78	328	21.920	194	71.07	130
17	53.361	284	35.86	71	35.107	364	33.10	304	22.53	41	48.50	313	22.114	230	69.77	153
27	53.645	327	35.15	19	35.471	417	30.06	284	22.94	47	45.37	290	22.344	265	68.24	174
Nov. 6	53.972	363	34.96	35	35.888	465	27.22	258	23.41	52	42.47	259	22.609	295	66.50	192
16	54.335	388	35.31	90	36.353	503	24.64	224	23.93	57	39.88	221	22.904	320	64.58	205
26	54.723	403	36.21	144	36.856	529	22.40	183	24.50	60	37.67	177	23.224	336	62.53	212
Dez. 6	55.126	405	37.65	193	37.385	542	20.57	136	25.10	62	35.90	126	23.560	342	60.41	213
16	55.531	393	39.58	238	37.927	539	19.21	84	25.72	61	34.64	72	23.902	340	58.28	208
26	55.924	369	41.96	274	38.466	518	18.37	30	26.33	59	33.92	14	24.242	326	56.20	195
36	56.293		44.70		38.984		18.07		26.92		33.78		24.568		54.25	
Mittl. Ort	53.563		41.25		34.189		48.01		21.72		64.66		21.361		72.78	
sec δ, tg δ	1.342		−0.896		1.824		+1.526		2.140		+1.891		1.009		+0.136	

Tag	420) ψ Ursae maj. AR.		420) Dekl.		421) β Crateris AR.		421) Dekl.		422) δ Leonis AR.		422) Dekl.		423) ϑ Leonis AR.		423) Dekl.	
1929	11h 5m		+44° 52′		11h 8m		−22° 26′		11h 10m		+20° 54′		11h 10m		+15° 48′	
	s		″		s		″		s		″		s		″	
Jan. 1	40.876	409	54.54	48	9.441	316	4.04	261	19.898	332	44.89	141	30.717	324	64.31	159
11	41.285	373	54.06	1	9.757	283	6.65	268	20.230	303	43.48	109	31.041	294	62.72	130
21	41.658	326	54.07	49	10.040	243	9.33	267	20.533	265	42.39	73	31.335	258	61.42	99
31	41.984	269	54.56	94	10.283	200	12.00	260	20.798	221	41.66	37	31.593	215	60.43	65
Feb. 10	42.253	208	55.50	133	10.483	152	14.60	246	21.019	173	41.29	3	31.808	168	59.78	33
20	42.461	143	56.83	165	10.635	104	17.06	228	21.192	123	41.26	28	31.976	120	59.45	3
März 2	[9] 42.604	79	58.48	187	[9] 10.739	59	19.34	206	[10] 21.315	75	41.54	55	[10] 32.096	73	59.42	24
11	42.683	20	60.35	201	10.798	18	21.40	181	21.390	30	42.09	77	32.169	30	59.66	48
21	42.703	36	62.36	205	10.816	19	23.21	154	21.420	10	42.86	93	32.199	9	60.14	65
31	42.667	82	64.41	2[illegible]	10.797	50	24.75	127	21.410	43	43.79	102	32.190	40	60.79	77
April 10	42.585	120	66.41	187	10.747	75	26.02	99	21.367	70	44.81	106	32.150	66	61.56	84
20	42.465	148	68.28	166	10.672	94	27.01	70	21.297	89	45.87	104	32.084	85	62.40	87
30	42.317	167	69.94	140	10.578	107	27.71	42	21.208	103	46.91	99	31.999	98	63.27	86
Mai 10	42.150	178	71.34	108	10.471	116	28.13	15	21.105	110	47.90	89	31.901	105	64.13	80
20	41.972	180	72.42	74	10.355	120	28.28	13	20.995	113	48.79	76	31.796	107	64.93	72
30	41.792	176	73.16	38	10.235	120	28.15	39	20.882	110	49.55	60	31.689	105	65.65	62
Juni 9	41.616	166	73.54	0	10.115	115	27.76	64	20.772	104	50.15	44	31.584	99	66.27	50
19	41.450	151	73.54	37	10.000	109	27.12	86	20.668	94	50.59	25	31.485	89	66.77	36
29	41.299	130	73.17	74	9.891	98	26.26	106	20.574	81	50.84	6	31.396	78	67.13	22
Juli 9	41.169	107	72.43	109	9.793	85	25.20	123	20.493	66	50.90	13	31.318	64	67.35	5
19	41.062	80	71.34	142	9.708	68	23.97	136	20.427	49	50.77	34	31.254	47	67.40	11
29	40.982	50	69.92	173	9.640	48	22.61	144	20.378	28	50.43	54	31.207	27	67.29	28
Aug. 8	40.932	16	68.19	200	9.592	23	21.17	146	20.350	5	49.89	76	31.180	5	67.01	48
18	40.916	21	66.19	225	9.569	5	19.71	143	20.345	21	49.13	96	31.175	20	66.53	67
28	40.937	59	63.94	247	9.574	38	18.28	133	20.366	50	48.17	118	31.195	49	65.86	87
Sept. 7	40.996	101	61.47	264	9.612	73	16.95	116	20.416	83	46.99	139	31.244	80	64.99	109
17	41.097	147	58.83	277	9.685	112	15.79	93	20.499	118	45.60	159	31.324	115	63.90	131
27	41.244	193	56.06	286	9.797	154	14.86	63	20.617	155	44.01	179	31.439	152	62.59	152
Okt. 7	41.437	241	53.20	290	9.951	195	14.23	28	20.772	195	42.22	196	31.591	190	61.07	172
17	41.678	289	50.30	287	10.146	236	13.95	11	20.967	233	40.26	211	31.781	228	59.35	189
27	41.967	333	47.43	277	10.382	273	14.06	53	21.200	270	38.15	222	32.009	264	57.46	205
Nov. 6	42.300	373	44.66	261	10.655	307	14.59	95	21.470	303	35.93	228	32.273	297	55.41	216
16	42.673	407	42.05	238	10.962	332	15.54	137	21.773	331	33.65	227	32.570	323	53.25	220
26	43.080	429	39.67	208	11.294	348	16.91	175	22.104	350	31.38	221	32.893	342	51.05	219
Dez. 6	43.509	442	37.59	170	11.642	354	18.66	208	22.454	359	29.17	208	33.235	352	48.86	212
16	43.951	441	35.89	127	11.996	349	20.74	234	22.813	359	27.09	187	33.587	350	46.74	197
26	44.392	426	34.62	80	12.345	333	23.08	255	23.172	347	25.22	162	33.937	338	44.77	177
36	44.818		33.82		12.678		25.63		23.519		23.60		34.275		43.00	
Mittl. Ort	40.783		62.40		9.817		16.29		20.131		46.65		30.988		64.52	
sec δ, tg δ	1.411		+0.996		1.082		−0.413		1.071		+0.382		1.039		+0.283	

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Tag	425) ν Ursae maj. AR.		Dekl.		426) δ Crateris AR.		Dekl.		427) σ Leonis AR.		Dekl.		428) π Centauri AR.		Dekl.	
1929	$11^h 14^m$		$+33° 28'$		$11^h 15^m$		$-14° 23'$		$11^h 17^m$		$+6° 24'$		$11^h 17^m$		$-54° 5'$	
Jan. 1	$38^s.815$	364	$49''.49$	99	$46^s.935$	313	$29''.17$	243	$28^s.224$	316	$70''.01$	191	$45^s.382$	425	$45''.28$	276
11	39.179	334	48.50	56	47.248	283	31.60	243	28.540	289	68.10	171	45.807	378	48.04	311
21	39.513	294	47.94	12	47.531	247	34.03	235	28.829	253	66.39	147	46.185	322	51.15	335
31	39.807	247	47.82	29	47.778	205	36.38	223	29.082	213	64.92	119	46.507	260	54.50	352
Feb. 10	40.054	193	48.11	68	47.983	160	38.61	205	29.295	167	63.73	90	46.767	193	58.02	358
20	40.247	139	48.79	101	48.143	114	40.66	184	29.462	122	62.83	61	46.960	126	61.60	356
März 2	40.386	85	49.80	127	48.257	70	42.50	160	29.584	77	62.22	34	47.086	61	65.16	347
11*)	40.471	33	51.07	147	48.327	29	44.10	135	29.661	37	61.88	10	47.147	1	68.63	330
21	40.504	12	52.54	158	48.356	7	45.45	110	29.698	1	61.78	12	47.148	56	71.93	306
31	40.492	51	54.12	160	48.349	37	46.55	85	29.697	32	61.90	29	47.092	105	74.99	277
April 10	40.441	83	55.72	157	48.312	62	47.40	60	29.665	56	62.19	42	46.987	146	77.76	243
20	40.358	108	57.29	146	48.250	80	48.00	37	29.609	75	62.61	53	46.841	182	80.19	206
30	40.250	124	58.75	129	48.170	94	48.37	14	29.534	88	63.14	59	46.659	210	82.25	164
Mai 10	40.126	133	60.04	108	48.076	102	48.51	7	29.446	96	63.73	62	46.449	232	83.89	120
20	39.993	137	61.12	84	47.974	106	48.44	28	29.350	99	64.35	64	46.217	246	85.09	74
30	39.856	135	61.96	57	47.868	107	48.16	46	29.251	99	64.99	62	45.971	254	85.83	28
Juni 9	39.721	128	62.53	28	47.761	104	47.70	63	29.152	95	65.61	59	45.717	255	86.11	20
19	39.593	118	62.81	1	47.657	98	47.07	78	29.057	88	66.20	54	45.462	250	85.91	67
29	39.475	103	62.80	31	47.559	89	46.29	92	28.969	78	66.74	48	45.212	238	85.24	110
Juli 9	39.372	86	62.49	59	47.470	77	45.37	101	28.891	65	67.22	39	44.974	218	84.14	151
19	39.286	65	61.90	88	47.393	62	44.36	108	28.826	51	67.61	30	44.756	192	82.63	187
29	39.221	41	61.02	115	47.331	44	43.28	110	28.775	33	67.91	17	44.564	157	80.76	217
Aug. 8	39.180	16	59.87	142	47.287	21	42.18	109	28.742	12	68.08	3	44.407	115	78.59	240
18	39.164	14	58.45	165	47.266	4	41.09	101	28.730	12	68.11	13	44.292	66	76.19	254
28	39.178	46	56.80	188	47.270	34	40.08	90	28.742	39	67.98	32	44.226	10	73.65	260
Sept. 7	39.224	82	54.92	209	47.304	67	39.18	71	28.781	71	67.66	53	44.216	52	71.05	255
17	39.306	121	52.83	227	47.371	103	38.47	48	28.852	104	67.13	76	44.268	118	68.50	239
27	39.427	162	50.56	241	47.474	143	37.99	21	28.956	141	66.37	100	44.386	185	66.11	214
Okt. 7	39.589	205	48.15	253	47.617	183	37.78	12	29.097	179	65.37	125	44.571	252	63.97	179
17	39.794	247	45.62	259	47.800	222	37.90	47	29.276	218	64.12	149	44.823	316	62.18	134
27	40.041	287	43.03	259	48.022	260	38.37	84	29.494	254	62.63	172	45.139	373	60.84	83
Nov. 6	40.328	325	40.44	254	48.282	293	39.21	121	29.748	286	60.91	191	45.512	422	60.01	26
16	40.653	356	37.90	242	48.575	319	40.42	154	30.034	313	59.00	205	45.934	457	59.75	33
26	41.009	377	35.48	223	48.894	337	41.96	185	30.347	333	56.95	214	46.391	479	60.08	93
Dez. 6	41.386	390	33.25	197	49.231	345	43.81	211	30.680	342	54.81	218	46.870	486	61.01	151
16	41.776	391	31.28	164	49.576	342	45.92	230	31.022	342	52.63	214	47.356	476	62.52	205
26	42.167	379	29.64	126	49.918	329	48.22	241	31.364	330	50.49	203	47.832	451	64.57	252
36	42.546		28.38		50.247		50.63		31.694		48.46		48.283		67.09	
Mittl. Ort	38.949		54.93		47.352		38.80		28.583		67.34		45.742		66.23	
sec δ, tg δ	1.199		+0.661		1.032		−0.257		1.006		+0.112		1.705		−1.382	

*) Bei Stern 427) und 428) lies März 12

Tag	429) Grb 1771 AR.		429) Dekl.		433) λ Draconis AR.		433) Dekl.		434) ξ Hydrae AR.		434) Dekl.		436) λ Centauri AR.		436) Dekl.	
1929	11h 18m		+64° 42′		11h 27m		+69° 42′		11h 29m		−31° 27′		11h 32m		−62° 37′	
Jan. 1	39.85	62	57.88	8	13.59	75	70.53	12	29.803	342	37.59	262	29.31	52	13.96	255
11	40.47	57	57.96	67	14.34	69	70.65	74	30.145	310	40.21	280	29.83	48	16.51	297
21	41.04	51	58.63	122	15.03	62	71.39	131	30.455	272	43.01	288	30.31	41	19.48	330
31	41.55	42	59.85	172	15.65	52	72.70	182	30.727	227	45.89	290	30.72	33	22.78	353
Feb. 10	41.97	33	61.57	214	16.17	41	74.52	225	30.954	179	48.79	284	31.05	26	26.31	368
20	42.30	23	63.71	245	16.58	29	76.77	258	31.133	131	51.63	272	31.31	17	29.99	373
März 2	42.53	12	66.16	266	16.87	16	79.35	278	31.264	82	54.35	254	31.48	9	33.72	370
12	42.65	3	68.82	275	17.03	4	82.13	288	31.346	38	56.89	232	31.57	2	37.42	358
21	[12] 42.68	7	71.57	272	[14] 17.07	8	85.01	285	[15] 31.384	2	59.21	208	[16] 31.59	6	41.00	340
31	42.61	16	74.29	258	16.99	18	87.86	271	31.382	36	61.29	180	31.53	12	44.40	315
Apr. 10	42.45	22	76.87	234	16.81	28	90.57	246	31.346	66	63.09	151	31.41	17	47.55	283
20	42.23	28	79.21	202	16.53	36	93.03	212	31.280	89	64.60	120	31.24	23	50.38	247
30	41.95	33	81.23	163	16.17	41	95.15	171	31.191	108	65.80	88	31.01	27	52.85	207
Mai 10	41.62	35	82.86	120	15.76	44	96.86	125	31.083	121	66.68	55	30.74	30	54.92	162
20	41.27	36	84.06	71	15.32	47	98.11	74	30.962	129	67.23	22	30.44	33	56.54	114
30	40.91	36	84.77	21	14.85	48	98.85	22	30.833	135	67.45	10	30.11	34	57.68	65
Juni 9	40.55	35	84.98	29	14.37	46	99.07	30	30.698	136	67.35	42	29.77	35	58.33	14
19	40.20	33	84.69	79	13.91	44	98.77	82	30.562	133	66.93	72	29.42	36	58.47	36
29	39.87	30	83.90	126	13.47	41	97.95	132	30.429	126	66.21	100	29.06	34	58.11	85
Juli 9	39.57	26	82.64	170	13.06	36	96.63	178	30.303	116	65.21	124	28.72	32	57.26	132
19	39.31	21	80.94	212	12.70	30	94.85	222	30.187	100	63.97	146	28.40	29	55.94	174
29	39.10	16	78.82	248	12.40	24	92.63	259	30.087	81	62.51	162	28.11	25	54.20	211
Aug. 8	38.94	10	76.34	279	12.16	16	90.04	292	30.006	55	60.89	172	27.86	20	52.09	241
18	38.84	4	73.55	306	12.00	9	87.12	321	29.951	27	59.17	176	27.66	13	49.68	263
28	38.80	2	70.49	327	11.91	1	83.91	341	29.924	9	57.41	172	27.53	6	47.05	274
Sept. 7	38.82	10	67.22	341	11.90	8	80.50	355	29.933	47	55.69	161	27.47	1	44.31	277
17	38.92	18	63.81	350	11.98	17	76.95	364	29.980	91	54.08	142	27.48	10	41.54	268
27	39.10	25	60.31	351	12.15	26	73.31	365	30.071	136	52.66	115	27.58	19	38.86	248
Okt. 7	39.35	32	56.80	345	12.41	36	69.66	358	30.207	184	51.51	82	27.77	28	36.38	217
17	39.67	40	53.35	332	12.77	45	66.08	342	30.391	230	50.69	41	28.05	36	34.21	176
27	40.07	47	50.03	310	13.22	54	62.66	320	30.621	274	50.28	2	28.41	44	32.45	127
Nov. 6	40.54	54	46.93	280	13.76	62	59.46	288	30.895	312	50.30	49	28.85	49	31.18	70
16	41.08	59	44.13	243	14.38	69	56.58	248	31.207	343	50.79	96	29.34	55	30.48	10
26	41.67	63	41.70	198	15.07	74	54.10	201	31.550	364	51.75	141	29.89	58	30.38	52
Dez. 6	42.30	65	39.72	146	15.81	77	52.09	148	31.914	374	53.16	183	30.47	59	30.90	114
16	42.95	66	38.26	90	16.58	79	50.61	89	32.288	372	54.99	220	31.06	58	32.04	173
26	43.61	64	37.36	31	17.37	77	49.72	28	32.660	359	57.19	249	31.64	56	33.77	227
36	44.25		37.05		18.14		49.44		33.019		59.68		32.20		36.04	
Mittl. Ort	39.16		69.62		12.62		83.16		30.334		52.62		29.80		36.73	
sec δ, tg δ	2.341		+2.117		2.886		+2.707		1.172		−0.612		2.175		−1.931	

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Tag	437) υ Leonis AR.		437) υ Leonis Dekl.		440) 3 Draconis AR.		440) 3 Draconis Dekl.	
1929	11ʰ 33ᵐ		−0° 25′		11ʰ 38ᵐ		+67° 7′	
Jan. 1	18ˢ.324	319	49″.32	212	32ˢ.40	68	64″.10	10
11	18.643	294	51.44	199	33.08	64	64.00	51
21	18.937	262	53.43	180	33.72	58	64.51	109
31	19.199	222	55.23	157	34.30	49	65.60	163
Feb. 10	19.421	179	56.80	132	34.79	39	67.23	208
20	19.600	135	58.12	105	35.18	29	69.31	244
März 2	19.735	92	59.17	78	35.47	18	71.75	269
12	19.827	51	59.95	52	35.65	7	74.44	282
21	[16] 19.878	15	60.47	29	[17] 35.72	4	77.26	283
31	19.893	16	60.76	9	35.68	13	80.09	273
Apr. 10	19.877	43	60.85	9	35.55	22	82.82	251
20	19.834	62	60.76	24	35.33	29	85.33	222
30	19.772	77	60.52	36	35.04	34	87.55	183
Mai 10	19.695	87	60.16	46	34.70	38	89.38	140
20	19.608	94	59.70	53	34.32	40	90.78	91
30	19.514	96	59.17	57	33.92	42	91.69	41
Juni 9	19.418	94	58.60	61	33.50	41	92.10	11
19	19.324	91	57.99	63	33.09	39	91.99	62
29	19.233	84	57.36	62	32.70	36	91.37	112
Juli 9	19.149	74	56.74	59	32.34	33	90.25	159
19	19.075	63	56.15	55	32.01	28	88.66	203
29	19.012	46	55.60	47	31.73	23	86.63	243
Aug. 8	18.966	28	55.13	36	31.50	17	84.20	278
18	18.938	4	54.77	24	31.33	10	81.42	307
28	18.934	22	54.53	7	31.23	3	78.35	332
Sept. 7	18.956	53	54.46	13	31.20	4	75.03	349
17	19.009	88	54.59	36	31.24	13	71.54	360
27	19.097	125	54.95	61	31.37	21	67.94	364
Okt. 7	19.222	164	55.56	88	31.58	30	64.30	361
17	19.386	203	56.44	116	31.88	38	60.69	348
27	19.589	242	57.60	143	32.26	46	57.21	330
Nov. 6	19.831	277	59.03	169	32.72	54	53.91	301
16	20.108	306	60.72	190	33.26	61	50.90	264
26	20.414	327	62.62	206	33.87	66	48.26	220
Dez. 6	20.741	339	64.68	218	34.53	69	46.06	168
16	21.080	341	66.86	222	35.22	71	44.38	112
26	21.421	332	69.08	219	35.93	70	43.26	50
36	21.753		71.27		36.63		42.76	
Mittl. Ort	18.801		54.04		31.75		76.91	
sec δ, tg δ	1.000		−0.008		2.574		+2.372	

Tag	441) χ Ursae maj. AR.		441) χ Ursae maj. Dekl.		444) β Leonis AR.		444) β Leonis Dekl.	
1929	11ʰ 42ᵐ		+48° 9′		11ʰ 45ᵐ		+14° 57′	
Jan. 1	18ˢ.459	443	73″.28	76	25ˢ.924	334	67″.73	178
11	18.902	415	72.52	22	26.258	311	65.95	150
21	19.317	374	72.30	32	26.569	280	64.45	117
31	19.691	322	72.62	82	26.849	242	63.28	83
Feb. 10	20.013	263	73.44	128	27.091	198	62.45	49
20	20.276	198	74.72	167	27.289	153	61.96	15
März 2	20.474	133	76.39	196	27.442	108	61.81	15
12	20.607	68	78.35	217	27.550	65	61.96	40
21	[18] 20.675	8	80.52	227	[19] 27.615	26	62.36	62
31	20.683	45	82.79	226	27.641	8	62.98	78
Apr. 10	20.638	92	85.05	218	27.633	37	63.76	88
20	20.546	129	87.23	199	27.596	60	64.64	93
30	20.417	157	89.22	174	27.536	77	65.57	93
Mai 10	20.260	178	90.96	143	27.459	90	66.50	90
20	20.082	190	92.39	108	27.369	98	67.40	83
30	19.892	194	93.47	69	27.271	101	68.23	73
Juni 9	19.698	193	94.16	28	27.170	101	68.96	61
19	19.505	185	94.44	13	27.069	98	69.57	47
29	19.320	172	94.31	55	26.971	92	70.04	32
Juli 9	19.148	154	93.76	94	26.879	83	70.36	15
19	18.994	131	92.82	133	26.796	72	70.51	3
29	18.863	105	91.49	169	26.724	56	70.48	21
Aug. 8	18.758	74	89.80	203	26.668	37	70.27	41
18	18.684	39	87.77	232	26.631	15	69.86	62
28	18.645	1	85.45	259	26.616	11	69.24	84
Sept. 7	18.646	45	82.86	281	26.627	42	68.40	107
17	18.691	93	80.05	299	26.669	77	67.33	129
27	18.784	143	77.06	311	26.746	114	66.04	152
Okt. 7	18.927	196	73.95	318	26.860	154	64.52	174
17	19.123	250	70.77	318	27.014	195	62.78	194
27	19.373	303	67.59	311	27.209	235	60.84	210
Nov. 6	19.676	352	64.48	296	27.444	273	58.74	224
16	20.028	394	61.52	273	27.717	304	56.50	231
26	20.422	428	58.79	243	28.021	329	54.19	232
Dez. 6	20.850	450	56.36	205	28.350	345	51.87	226
16	21.300	461	54.31	160	28.695	350	49.61	214
26	21.761	455	52.71	110	29.045	345	47.47	195
36	22.216		51.61		29.390		45.52	
Mittl. Ort	18.531		83.14		26.386		68.45	
sec δ, tg δ	1.499		+1.117		1.035		+0.267	

Tag	445) β Virginis AR.		445) β Virginis Dekl.		447) γ Ursae maj. AR.		447) γ Ursae maj. Dekl.		450) ο Virginis AR.		450) ο Virginis Dekl.		452) δ Centauri AR.		452) δ Centauri Dekl.	
1929	11h 46m		+2° 9′		11h 50m		+54° 4′		12h 1m		+9° 7′		12h 4m		−50° 19′	
Jan. 1	59.269	326	57.02	209	6.297	493	70.77	66	34.999	333	38.79	197	39.300	439	17.19	233
11	59.595	304	54.93	193	6.790	465	70.11	8	35.332	313	36.82	174	39.739	407	19.52	270
21	59.899	273	53.00	172	7.255	421	70.03	48	35.645	284	35.08	147	40.146	365	22.22	298
31	60.172	236	51.28	147	7.676	366	70.51	101	35.929	249	33.61	117	40.511	316	25.20	319
Feb. 10	60.408	194	49.81	120	8.042	301	71.52	149	36.178	209	32.44	84	40.827	260	28.39	330
20	60.602	150	48.61	92	8.343	229	73.01	189	36.387	166	31.60	52	41.087	202	31.69	334
März 2	60.752	108	47.69	64	8.572	156	74.90	220	36.553	122	31.08	23	41.289	144	35.03	330
12	60.860	67	47.05	38	8.728	83	77.10	240	36.675	81	30.85	5	41.433	87	38.33	319
21*)	[19] 60.927	30	46.67	15	[20] 8.811	13	79.50	249	36.756	43	30.90	28	41.520	35	41.52	302
31	60.957	2	46.52	5	8.824	48	81.99	248	[23] 36.799	9	31.18	47	[24] 41.555	13	44.54	281
Apr. 10	60.955	29	46.57	22	8.776	104	84.47	237	36.808	19	31.65	61	41.542	56	47.35	254
20	60.926	51	46.79	36	8.672	148	86.84	216	36.789	43	32.26	71	41.486	95	49.89	222
30	60.875	67	47.15	46	8.524	184	89.00	188	36.746	62	32.97	77	41.391	128	52.11	188
Mai 10	60.808	79	47.61	53	8.340	210	90.88	153	36.684	76	33.74	78	41.263	156	53.99	150
20	60.729	87	48.14	58	8.130	227	92.41	114	36.608	86	34.52	76	41.107	179	55.49	109
30	60.642	92	48.72	60	7.903	235	93.55	71	36.522	92	35.28	72	40.928	197	56.58	67
Juni 9	60.550	93	49.32	60	7.668	235	94.26	27	36.430	96	36.00	66	40.731	210	57.25	25
19	60.457	91	49.92	59	7.433	228	94.53	18	36.334	96	36.66	57	40.521	216	57.50	19
29	60.366	86	50.51	56	7.205	214	94.35	64	36.238	93	37.23	46	40.305	217	57.31	62
Juli 9	60.280	79	51.07	50	6.991	195	93.71	108	36.145	87	37.69	34	40.088	211	56.69	101
19	60.201	68	51.57	43	6.796	170	92.63	149	36.058	78	38.03	20	39.877	198	55.68	139
29	60.133	54	52.00	34	6.626	140	91.14	188	35.980	65	38.23	6	39.679	177	54.29	172
Aug. 8	60.079	36	52.34	22	6.486	105	89.26	223	35.915	50	38.29	11	39.502	148	52.57	199
18	60.043	15	52.56	7	6.381	65	87.03	255	35.865	29	38.18	30	39.354	110	50.58	219
28	60.028	11	52.63	9	6.316	21	84.48	282	35.836	4	37.88	50	39.244	65	48.39	231
Sept. 7	60.039	42	52.54	31	6.295	29	81.66	305	35.832	26	37.38	71	39.179	13	46.08	234
17	60.081	75	52.23	53	6.324	83	78.61	322	35.858	59	36.67	95	39.166	46	43.74	227
27	60.156	112	51.70	78	6.407	140	75.39	334	35.917	97	35.72	119	39.212	110	41.47	211
Okt. 7	60.268	153	50.92	104	6.547	201	72.05	339	36.014	137	34.53	143	39.322	176	39.36	185
17	60.421	193	49.88	130	6.748	261	68.66	336	36.151	179	33.10	166	39.498	242	37.51	149
27	60.614	233	48.58	155	7.009	320	65.30	326	36.330	219	31.44	187	39.740	304	36.02	106
Nov. 6	60.847	269	47.03	179	7.329	377	62.04	309	36.549	259	29.57	205	40.044	359	34.96	56
16	61.116	301	45.24	198	7.706	425	58.95	282	36.808	292	27.52	219	40.403	405	34.40	3
26	61.417	324	43.26	212	8.131	465	56.13	248	37.100	319	25.33	227	40.808	439	34.37	53
Dez. 6	61.741	339	41.14	221	8.596	493	53.65	206	37.419	337	23.06	228	41.247	459	34.90	108
16	62.080	344	38.93	223	9.089	506	51.59	157	37.756	345	20.78	222	41.706	465	35.98	160
26	62.424	338	36.70	217	9.595	503	50.02	102	38.101	342	18.56	209	42.171	456	37.58	208
36	62.762		34.53		10.098		49.00		38.443		16.47		42.627		39.66	
Mittl. Ort	59.813		53.44		6.291		82.07		35.588		37.91		40.204		37.28	
sec δ, tg δ	1.001		+0.038		1.705		+1.381		1.013		+0.161		1.566		−1.206	

*) Bei Stern 450) und 452) lies März 22

Tag	453) ε Corvi AR.		453) ε Corvi Dekl.		454) 4 H. Draconis AR.		454) 4 H. Draconis Dekl.		456) δ Ursae maj. AR.		456) δ Ursae maj. Dekl.		459) β Chamael. AR.		459) β Chamael. Dekl.	
1929	$12^h\ 6^m$		−22° 13′		$12^h\ 8^m$		+78° 0′		$12^h\ 11^m$		+57° 25′		$12^h\ 14^m$		−78° 54′	
Jan. 1	27.406	343	18.01	237	55.08	120	23.90	23	55.191	531	24.47	83	6.91	120	40.14	177
11	27.749	322	20.38	247	56.28	115	23.67	44	55.722	509	23.64	23	8.11	112	41.91	232
21	28.071	291	22.85	250	57.43	106	24.11	106	56.231	470	23.41	37	9.23	100	44.23	279
31	28.362	254	25.35	248	58.49	93	25.17	164	56.701	416	23.78	94	10.23	87	47.02	319
Feb. 10	28.616	212	27.83	237	59.42	79	26.81	214	57.117	351	24.72	146	11.10	70	50.21	350
20	28.828	169	30.20	224	60.21	60	28.95	255	57.468	278	26.18	190	11.80	54	53.71	371
März 2	28.997	126	32.44	205	60.81	41	31.50	283	57.746	201	28.08	225	12.34	37	57.42	384
12	29.123	85	34.49	184	61.22	21	34.33	301	57.947	123	30.33	249	12.71	20	61.26	388
22	29.208	47	36.33	161	61.43	0	37.34	305	58.070	46	32.82	262	12.91	2	65.14	384
31	29.255	12	37.94	137	61.43	19	40.39	297	58.116	24	35.44	264	12.93	14	68.98	372
Apr. 10	29.267	17	39.31	113	61.24	36	43.36	278	58.092	87	38.08	255	12.79	30	72.70	352
20	29.250	42	40.44	87	60.88	51	46.14	248	58.005	141	40.63	237	12.49	44	76.22	324
30	29.208	63	41.31	63	60.37	64	48.62	209	57.864	186	43.00	210	12.05	58	79.46	292
Mai 10	29.145	79	41.94	39	59.73	74	50.71	164	57.678	221	45.10	175	11.47	70	82.38	252
20	29.066	93	42.33	14	58.99	81	52.35	114	57.457	245	46.85	136	10.77	80	84.90	207
30	28.973	102	42.47	9	58.18	86	53.49	61	57.212	262	48.21	92	9.97	88	86.97	159
Juni 9	28.871	108	42.38	32	57.32	87	54.10	5	56.950	268	49.13	46	9.09	94	88.56	106
19	28.763	112	42.06	53	56.45	87	54.15	51	56.682	267	49.59	2	8.15	98	89.62	52
29	28.651	112	41.53	72	55.58	84	53.64	104	56.415	258	49.57	49	7.17	99	90.14	3
Juli 9	28.539	108	40.81	90	54.74	79	52.60	157	56.157	243	49.08	97	6.18	97	90.11	59
19	28.431	100	39.91	105	53.95	72	51.03	205	55.914	220	48.11	141	5.21	92	89.52	112
29	28.331	88	38.86	115	53.23	62	48.98	248	55.694	192	46.70	183	4.29	84	88.40	161
Aug. 8	28.243	71	37.71	122	52.61	52	46.50	288	55.502	158	44.87	223	3.45	73	86.79	206
18	28.172	48	36.49	123	52.09	41	43.62	322	55.344	116	42.64	258	2.72	60	84.73	243
28	28.124	20	35.26	119	51.68	27	40.40	348	55.228	70	40.06	288	2.12	43	82.30	272
Sept. 7	28.104	13	34.07	108	51.41	13	36.92	368	55.158	18	37.18	314	1.69	25	79.58	291
17	28.117	52	32.99	92	51.28	2	33.24	382	55.140	40	34.04	333	1.44	4	76.67	299
27	28.169	94	32.07	69	51.30	17	29.42	388	55.180	102	30.71	348	1.40	17	73.68	295
Okt. 7	28.263	140	31.38	41	51.47	34	25.54	384	55.282	168	27.23	355	1.57	39	70.73	280
17	28.403	185	30.97	7	51.81	50	21.70	374	55.450	235	23.68	354	1.96	59	67.93	252
27	28.588	230	30.90	30	52.31	65	17.96	354	55.685	303	20.14	347	2.55	79	65.41	213
Nov. 6	28.818	272	31.20	68	52.96	80	14.42	325	55.988	367	16.67	329	3.34	96	63.28	166
16	29.090	307	31.88	107	53.76	94	11.17	287	56.355	425	13.38	303	4.30	109	61.62	110
26	29.397	334	32.95	144	54.70	105	8.30	241	56.780	473	10.35	269	5.39	119	60.52	48
Dez. 6	29.731	352	34.39	178	55.75	114	5.89	187	57.253	510	7.66	227	6.58	125	60.04	15
16	30.083	359	36.17	206	56.89	119	4.02	128	57.763	532	5.39	176	7.83	127	60.19	79
26	30.442	354	38.23	228	58.08	121	2.74	64	58.295	537	3.63	121	9.10	125	60.98	142
36	30.796		40.51		59.29		2.10		58.832		2.42		10.35		62.40	
Mittl. Ort	28.182		29.73		53.66		38.62		55.273		37.03		8.62		65.06	
sec δ, tg δ	1.080		−0.409		4.814		+4.709		1.857		+1.565		5.203		−5.106	

Tag	460) η Virginis				462) α Crucis med.				466) 20 Comae				465) δ Corvi			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
1929	12h 16m		−0° 16′		12h 22m		−62° 41′		12h 26m		+21° 16′		12h 26m		−16° 7′	
Jan. 1	15.638	332	16.66	216	37.11	58	59.77	197	8.724	353	76.79	184	10.390	341	3.94	227
11	15.970	315	18.82	202	37.69	55	61.74	244	9.077	337	74.95	150	10.731	324	6.21	231
21	16.285	288	20.84	184	38.24	49	64.18	284	9.414	313	73.45	111	11.055	298	8.52	230
31	16.573	255	22.68	162	38.73	43	67.02	315	9.727	280	72.34	71	11.353	264	10.82	222
Feb. 10	16.828	217	24.30	135	39.16	37	70.17	338	10.007	241	71.63	29	11.617	227	13.04	208
20	17.045	176	25.65	108	39.53	29	73.55	353	10.248	198	71.34	9	11.844	187	15.12	191
März 2	17.221	135	26.73	80	39.82	21	77.08	359	10.446	153	71.43	44	12.031	146	17.03	171
12	17.356	95	27.53	54	40.03	14	80.67	357	10.599	110	71.87	75	12.177	106	18.74	149
22	17.451	58	28.07	29	40.17	7	84.24	348	10.709	68	72.62	100	12.283	68	20.23	125
31	17.509	25	28.36	8	40.24	0	87.72	332	10.777	31	73.62	117	12.351	35	21.48	103
Apr. 10	17.534	3	28.44	11	40.24	6	91.04	309	10.808	3	74.79	128	12.386	5	22.51	81
20	17.531	28	28.33	27	40.18	13	94.13	281	10.805	30	76.07	132	12.391	20	23.32	59
30	17.503	47	28.06	38	40.05	18	96.94	248	10.775	54	77.39	131	12.371	42	23.91	38
Mai 10	17.456	64	27.68	47	39.87	22	99.42	210	10.721	73	78.70	124	12.329	60	24.29	19
20	17.392	76	27.21	54	39.65	26	101.52	168	10.648	88	79.94	112	12.269	75	24.48	0
30	17.316	84	26.67	58	39.39	30	103.20	123	10.560	98	81.06	97	12.194	87	24.48	17
Juni 9	17.232	91	26.09	60	39.09	32	104.43	75	10.462	105	82.03	78	12.107	96	24.31	34
19	17.141	93	25.49	60	38.77	34	105.18	26	10.357	108	82.81	58	12.011	102	23.97	49
29	17.048	94	24.89	58	38.43	34	105.44	23	10.249	109	83.39	36	11.909	105	23.48	63
Juli 9	16.954	91	24.31	55	38.09	35	105.21	72	10.140	105	83.75	11	11.804	104	22.85	74
19	16.863	85	23.76	49	37.74	33	104.49	118	10.035	99	83.86	13	11.700	100	22.11	83
29	16.778	75	23.27	41	37.41	30	103.31	160	9.936	89	83.73	38	11.600	91	21.28	89
Aug. 8	16.703	60	22.86	31	37.11	27	101.71	197	9.847	75	83.35	63	11.509	78	20.39	91
18	16.643	42	22.55	18	36.84	21	99.74	228	9.772	55	82.72	90	11.431	59	19.48	90
28	16.601	19	22.37	1	36.63	15	97.46	251	9.717	31	81.82	115	11.372	34	18.58	84
Sept. 7	16.582	11	22.36	16	36.48	8	94.95	263	9.686	1	80.67	141	11.338	3	17.74	72
17	16.593	44	22.52	38	36.40	0	92.32	266	9.685	33	79.26	166	11.335	32	17.02	55
27	16.637	82	22.90	62	36.40	9	89.66	258	9.718	71	77.60	189	11.367	73	16.47	34
Okt. 7	16.719	123	23.52	88	36.49	18	87.08	239	9.789	113	75.71	211	11.440	117	16.13	7
17	16.842	165	24.40	115	36.67	28	84.69	209	9.902	158	73.60	230	11.557	162	16.06	23
27	17.007	207	25.55	142	36.95	37	82.60	170	10.060	202	71.30	246	11.719	207	16.29	56
Nov. 6	17.214	248	26.97	167	37.32	44	80.90	122	10.262	246	68.84	255	11.926	250	16.85	90
16	17.462	283	28.64	188	37.76	51	79.68	67	10.508	284	66.29	260	12.176	287	17.75	123
26	17.745	311	30.52	206	38.27	56	79.01	9	10.792	317	63.69	257	12.463	318	18.98	155
Dez. 6	18.056	332	32.58	218	38.83	59	78.92	50	11.109	341	61.12	247	12.781	339	20.53	183
16	18.388	341	34.76	222	39.42	60	79.42	110	11.450	356	58.65	229	13.120	349	22.36	205
26	18.729	340	36.98	221	40.02	60	80.52	166	11.806	358	56.36	204	13.469	349	24.41	221
36	19.069		39.19		40.62		82.18		12.164		54.32		13.818		26.62	
Mittl. Ort	16.364		20.53		38.40		82.30		9.373		80.53		11.266		13.22	
sec δ, tg δ	1.000		−0.005		2.181		−1.938		1.073		+0.390		1.041		−0.289	

Tag	470) 8 Canum. ven.				472) ϰ Draconis				471) β Corvi				473) 24 Comae seq.			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
1929	$12^h\,30^m$		$+41°\,44'$		$12^h\,30^m$		$+70°\,10'$		$12^h\,30^m$		$-23°\,0'$		$12^h\,31^m$		$+18°\,45'$	
Jan. 1	22.040	413	24.92	143	27.97	77	31.00	73	38.232	352	4.06	225	33.503	348	60.63	191
11	22.453	398	23.49	93	28.74	76	30.27	8	38.584	334	6.31	238	33.851	335	58.72	159
21	22.851	371	22.56	38	29.50	71	30.19	56	38.918	309	8.69	243	34.186	312	57.13	123
31	23.222	333	22.18	16	30.21	64	30.75	117	39.227	275	11.12	242	34.498	279	55.90	84
Feb. 10	23.555	288	22.34	66	30.85	55	31.92	173	39.502	236	13.54	234	34.777	242	55.06	44
20	23.843	236	23.00	112	31.40	44	33.65	219	39.738	195	15.88	223	35.019	200	54.62	6
März 2	24.079	181	24.12	151	31.84	33	35.84	255	39.933	153	18.11	206	35.219	157	54.56	29
12	24.260	126	25.63	182	32.17	21	38.39	281	40.086	113	20.17	188	35.376	114	54.85	60
22	24.386	72	27.45	204	32.38	8	41.20	294	40.199	75	22.05	166	35.490	74	55.45	85
31	[30] 24.458	23	29.49	216	[30] 32.46	3	44.14	295	[30] 40.274	40	23.71	143	[31] 35.564	37	56.30	104
Apr. 10	24.481	21	31.65	219	32.43	14	47.09	284	40.314	9	25.14	120	35.601	5	57.34	117
20	24.460	60	33.84	212	32.29	23	49.93	263	40.323	19	26.34	97	35.606	24	58.51	123
30	24.400	93	35.96	197	32.06	32	52.56	232	40.304	42	27.31	74	35.582	47	59.74	123
Mai 10	24.307	119	37.93	176	31.74	38	54.88	194	40.262	62	28.05	50	35.535	66	60.97	119
20	24.188	139	39.69	149	31.36	44	56.82	149	40.200	78	28.55	26	35.469	82	62.16	109
30	24.049	153	41.18	116	30.92	48	58.31	100	40.122	92	28.81	4	35.387	92	63.25	96
Juni 9	23.896	162	42.34	81	30.44	49	59.31	47	40.030	102	28.85	18	35.295	101	64.21	80
19	23.734	167	43.15	44	29.95	50	59.78	5	39.928	110	28.67	39	35.194	105	65.01	62
29	23.567	165	43.59	4	29.45	49	59.73	58	39.818	115	28.28	59	35.089	106	65.63	41
Juli 9	23.402	160	43.63	35	28.96	48	59.15	111	39.703	115	27.69	77	34.983	104	66.04	19
19	23.242	150	43.28	74	28.48	44	58.04	160	39.588	111	26.92	92	34.879	100	66.23	3
29	23.092	135	42.54	113	28.04	40	56.44	207	39.477	102	26.00	105	34.779	90	66.20	26
Aug. 8	22.957	115	41.41	148	27.64	34	54.37	249	39.375	89	24.95	113	34.689	76	65.94	51
18	22.842	91	39.93	183	27.30	28	51.88	287	39.286	69	23.82	117	34.613	58	65.43	76
28	22.751	60	38.10	215	27.02	20	49.01	319	39.217	43	22.65	116	34.555	35	64.67	101
Sept. 7	22.691	24	35.95	244	26.82	13	45.82	346	39.174	11	21.49	108	34.520	7	63.66	126
17	22.667	17	33.51	269	26.69	4	42.36	365	39.163	26	20.41	94	34.513	27	62.40	151
27	22.684	63	30.82	290	26.65	6	38.71	379	39.189	69	19.47	74	34.540	65	60.89	175
Okt. 7	22.747	114	27.92	307	26.71	16	34.92	383	39.258	116	18.73	49	34.605	107	59.14	198
17	22.861	166	24.85	317	26.87	27	31.09	381	39.374	163	18.24	18	34.712	151	57.16	218
27	23.027	219	21.68	320	27.14	37	27.28	369	39.537	210	18.06	16	34.863	196	54.98	235
Nov. 6	23.246	270	18.48	317	27.51	47	23.59	347	39.747	255	18.22	54	35.059	240	52.63	247
16	23.516	318	15.31	305	27.98	57	20.12	318	40.002	295	18.76	91	35.299	278	50.16	253
26	23.834	358	12.26	285	28.55	65	16.94	278	40.297	326	19.67	128	35.577	311	47.63	254
Dez. 6	24.192	389	9.41	256	29.20	71	14.16	230	40.623	349	20.95	162	35.888	335	45.09	246
16	24.581	409	6.85	219	29.91	75	11.86	175	40.972	360	22.57	192	36.223	350	42.63	232
26	24.990	416	4.66	175	30.66	78	10.11	114	41.332	360	24.49	215	36.573	354	40.31	210
36	25.406		2.91		31.44		8.97		41.692		26.64		36.927		38.21	
Mittl. Ort	22.532		34.67		27.75		45.77		39.181		15.61		34.200		63.68	
sec δ, tg δ	1.340		+0.892		2.949		+2.774		1.086		−0.425		1.056		+0.340	

Tag	474) α Muscae AR.		474) α Muscae Dekl.		476) γ Centauri AR.		476) γ Centauri Dekl.		478) 76 Ursae maj. AR.		478) 76 Ursae maj. Dekl.		481) β Crucis AR.		481) β Crucis Dekl.	
1929	12h 32m		−68° 44′		12h 37m		−48° 33′		12h 38m		+63° 5′		12h 43m		−59° 17′	
	s		″		s		″		s		″		s		″	
Jan. 1	54.22	71	17.60	173	34.210	444	53.39	201	28.09	61	55.39	102	31.997	546	41.99	177
11	54.93	67	19.33	225	34.654	424	55.40	238	28.70	60	54.37	39	32.543	521	43.76	223
21	55.60	62	21.58	270	35.078	390	57.78	269	29.30	56	53.98	25	33.064	482	45.99	263
31	56.22	55	24.28	306	35.468	348	60.47	291	29.86	51	54.23	86	33.546	432	48.62	295
Feb. 10	56.77	46	27.34	335	35.816	299	63.38	306	30.37	44	55.09	142	33.978	373	51.57	318
20	57.23	38	30.69	354	36.115	248	66.44	314	30.81	36	56.51	191	34.351	310	54.75	334
März 2	57.61	28	34.23	364	36.363	195	69.58	314	31.17	28	58.42	232	34.661	245	58.09	342
12	57.89	20	37.87	368	36.558	142	72.72	307	31.45	19	60.74	260	34.906	178	61.51	342
22	58.09	10	41.55	364	36.700	91	75.79	295	31.64	9	63.34	278	35.084	113	64.93	335
31*)	58.19	1	45.19	352	36.791	43	78.74	278	31.73	1	66.12	284	35.197	51	68.28	322
Apr. 10	58.20	7	48.71	333	36.834	1	81.52	256	31.74	7	68.96	278	35.248	7	71.50	303
20	58.13	15	52.04	307	36.833	40	84.08	229	31.67	14	71.74	262	35.241	61	74.53	277
30	57.98	22	55.11	276	36.793	77	86.37	200	31.53	20	74.36	236	35.180	111	77.30	248
Mai 10	57.76	28	57.87	239	36.716	109	88.37	166	31.33	26	76.72	202	35.069	157	79.78	214
20	57.48	34	60.26	198	36.607	137	90.03	130	31.07	29	78.74	162	34.912	197	81.92	175
30	57.14	39	62.24	152	36.470	162	91.33	92	30.78	32	80.36	117	34.715	232	83.67	133
Juni 9	56.75	42	63.76	103	36.308	180	92.25	52	30.46	34	81.53	69	34.483	260	85.00	89
19	56.33	45	64.79	53	36.128	195	92.77	12	30.12	35	82.22	19	34.223	282	85.89	43
29	55.88	47	65.32	1	35.933	204	92.89	29	29.77	34	82.41	33	33.941	296	86.32	4
Juli 9	55.41	46	65.33	51	35.729	207	92.60	68	29.43	33	82.08	83	33.645	300	86.28	51
19	54.95	45	64.82	101	35.522	202	91.92	106	29.10	32	81.25	132	33.345	295	85.77	96
29	54.50	42	63.81	147	35.320	189	90.86	140	28.78	29	79.93	178	33.050	278	84.81	138
Aug. 8	54.08	38	62.34	189	35.131	169	89.46	169	28.49	25	78.15	221	32.772	251	83.43	175
18	53.70	32	60.45	225	34.962	139	87.77	193	28.24	21	75.94	260	32.521	212	81.68	207
28	53.38	23	58.20	253	34.823	100	85.84	208	28.03	16	73.34	294	32.309	161	79.61	230
Sept. 7	53.15	14	55.67	271	34.723	53	83.76	217	27.87	10	70.40	324	32.148	98	77.31	246
17	53.01	4	52.96	279	34.670	1	81.59	216	27.77	3	67.16	346	32.050	27	74.85	252
27	52.97	8	50.17	275	34.671	62	79.43	206	27.74	4	63.70	364	32.023	52	72.33	248
Okt. 7	53.05	19	47.42	261	34.733	128	77.37	186	27.78	12	60.06	373	32.075	136	69.85	232
17	53.24	31	44.81	236	34.861	193	75.51	157	27.90	21	56.33	375	32.211	222	67.53	206
27	53.55	41	42.45	199	35.054	258	73.94	120	28.11	28	52.58	368	32.433	304	65.47	171
Nov. 6	53.96	52	40.46	153	35.312	319	72.74	75	28.39	36	48.90	353	32.737	381	63.76	127
16	54.48	61	38.93	100	35.631	370	71.99	27	28.75	44	45.37	327	33.118	447	62.49	77
26	55.09	67	37.93	42	36.001	412	71.72	25	29.19	50	42.10	293	33.565	499	61.72	22
Dez. 6	55.76	71	37.51	19	36.413	441	71.97	77	29.69	56	39.17	250	34.064	537	61.50	35
16	56.47	74	37.70	80	36.854	456	72.74	128	30.25	59	36.67	199	34.601	557	61.85	92
26	57.21	73	38.50	140	37.310	455	74.02	176	30.84	61	34.68	142	35.158	558	62.77	147
36	57.94		39.90		37.765		75.78		31.45		33.26		35.716		64.24	
Mittl. Ort	55.86		40.96		35.452		72.50		28.26		69.52		33.512		63.42	
sec δ, tg δ	2.758		−2.571		1.511		−1.133		2.210		+1.971		1.959		−1.684	

*) Bei Stern 476), 478) und 481) lies April 1

Tag	482) *n* Centauri AR.	Δ	482) Dekl.	Δ	483) ε Ursae maj. AR.	Δ	483) Dekl.	Δ	484) δ Virginis AR.	Δ	484) Dekl.	Δ	486) 8 Draconis AR.	Δ	486) Dekl.	Δ
1929	12h 49m		−39° 47′		12h 50m		+56° 20′		12h 52m		+3° 46′		12h 52m		+65° 48′	
Jan. 1	28.520	404	19.19	200	54.240	517	28.28	135	0.658	336	59.91	214	39.05	66	69.28	114
11	28.924	387	21.19	230	54.757	508	26.93	73	0.994	326	57.77	198	39.71	65	68.14	50
21	29.311	361	23.49	254	55.265	483	26.20	11	1.320	306	55.79	176	40.36	62	67.64	15
31	29.672	326	26.03	270	55.748	442	26.09	49	1.626	278	54.03	150	40.98	57	67.79	78
Feb. 10	29.998	284	28.73	279	56.190	388	26.58	107	1.904	245	52.53	120	41.55	50	68.57	137
20	30.282	240	31.52	281	56.578	326	27.65	159	2.149	208	51.33	89	42.05	42	69.94	189
März 2	30.522	194	34.33	277	56.904	257	29.24	201	2.357	169	50.44	59	42.47	33	71.83	230
12	30.716	149	37.10	268	57.161	184	31.25	235	2.526	130	49.85	30	42.80	23	74.13	262
22	30.865	104	39.78	253	57.345	112	33.60	257	2.656	94	49.55	4	43.03	13	76.75	283
Apr. 1	30.969	63	42.31	236	57.457	42	36.17	269	2.750	60	49.51	18	43.16	3	79.58	291
10	31.032	25	44.67	215	57.499	23	38.86	268	2.810	29	49.69	37	43.19	5	82.49	287
20	31.057	9	46.82	190	57.476	81	41.54	259	2.839	2	50.06	51	43.14	14	85.36	273
30	31.048	41	48.72	163	57.395	132	44.13	238	2.841	21	50.57	62	43.00	21	88.09	249
Mai 10	31.007	69	50.35	134	57.263	174	46.51	211	2.820	41	51.19	68	42.79	27	90.58	216
20	30.938	94	51.69	103	57.089	209	48.62	175	2.779	58	51.87	70	42.52	32	92.74	176
30	30.844	116	52.72	71	56.880	235	50.37	135	2.721	73	52.57	71	42.20	36	94.50	131
Juni 9	30.728	133	53.43	37	56.645	253	51.72	91	2.648	83	53.28	69	41.84	39	95.81	82
19	30.595	148	53.80	4	56.392	263	52.63	45	2.565	92	53.97	63	41.45	40	96.63	31
29	30.447	158	53.84	30	56.129	267	53.08	4	2.473	98	54.60	57	41.05	40	96.94	21
Juli 9	30.289	162	53.54	63	55.862	262	53.04	52	2.375	101	55.17	49	40.65	39	96.73	72
19	30.127	162	52.91	94	55.600	252	52.52	100	2.274	99	55.66	39	40.26	38	96.01	123
29	29.965	154	51.97	121	55.348	233	51.52	145	2.175	95	56.05	27	39.88	35	94.78	172
Aug. 8	29.811	140	50.76	144	55.115	208	50.07	188	2.080	85	56.32	13	39.53	31	93.06	216
18	29.671	118	49.32	163	54.907	176	48.19	228	1.995	71	56.45	3	39.22	27	90.90	257
28	29.553	87	47.69	175	54.731	137	45.91	265	1.924	51	56.42	20	38.95	22	88.33	294
Sept. 7	29.466	49	45.94	180	54.594	90	43.26	296	1.873	24	56.22	41	38.73	15	85.39	324
17	29.417	3	44.14	176	54.504	37	40.30	323	1.849	8	55.81	62	38.58	7	82.15	350
27	29.414	48	42.38	165	54.467	23	37.07	344	1.857	44	55.19	86	38.51	0	78.65	368
Okt. 7	29.462	104	40.73	145	54.490	87	33.63	358	1.901	85	54.33	111	38.51	8	74.97	380
17	29.566	163	39.28	117	54.577	156	30.05	365	1.986	130	53.22	136	38.59	18	71.17	383
27	29.729	220	38.11	82	54.733	225	26.40	364	2.116	174	51.86	161	38.77	26	67.34	377
Nov. 6	29.949	275	37.29	42	54.958	295	22.76	354	2.290	218	50.25	183	39.03	36	63.57	363
16	30.224	323	36.87	2	55.253	359	19.22	336	2.508	258	48.42	202	39.39	44	59.94	339
26	30.547	363	36.89	48	55.612	416	15.86	307	2.766	292	46.40	217	39.83	52	56.55	305
Dez. 6	30.910	392	37.37	95	56.028	463	12.79	270	3.058	318	44.23	225	40.35	58	53.50	262
16	31.302	408	38.32	139	56.491	496	10.09	224	3.376	334	41.98	227	40.93	62	50.88	212
26	31.710	411	39.71	179	56.987	514	7.85	171	3.710	340	39.71	222	41.55	65	48.76	154
36	32.121		41.50		57.501		6.14		4.050		37.49		42.20		47.22	
Mittl. Ort	29.764		35.60		54.682		41.60		1.570		58.29		39.30		84.06	
sec δ, tg δ	1.301		−0.833		1.804		+1.502		1.002		+0.066		2.442		+2.228	

Tag	485) 12 Can. ven. sq. AR.	Δ	Dekl.	Δ	488) ε Virginis AR.	Δ	Dekl.	Δ
1929	12h 52m		+38° 41′		12h 58m		+11° 20′	
Jan. 1	41.917	399	55.79	172	37.652	341	24.23	211
11	42.316	390	54.07	123	37.993	332	22.12	186
21	42.706	369	52.84	69	38.325	313	20.26	157
31	43.075	338	52.15	16	38.638	287	18.69	123
Feb. 10	43.413	298	51.99	36	38.925	254	17.46	88
20	43.711	252	52.35	84	39.179	217	16.58	52
März 2	43.963	201	53.19	127	39.396	178	16.06	17
12	44.164	150	54.46	162	39.574	138	15.89	14
22	44.314	101	56.08	188	39.712	100	16.03	41
Apr. 1	44.415	53	57.96	205	39.812	66	16.44	64
10	44.468	9	60.01	213	39.878	34	17.08	81
20	44.477	29	62.14	212	39.912	5	17.89	93
30	44.448	63	64.26	202	39.917	20	18.82	99
Mai 10	44.385	90	66.28	185	39.897	40	19.81	101
20	44.295	114	68.13	162	39.857	59	20.82	98
30	44.181	131	69.75	133	39.798	74	21.80	92
Juni 9	44.050	145	71.08	101	39.724	86	22.72	82
19	43.905	153	72.09	65	39.638	96	23.54	71
29	43.752	158	72.74	29	39.542	101	24.25	57
Juli 9	43.594	157	73.03	10	39.441	105	24.82	41
19	43.437	152	72.93	48	39.336	105	25.23	24
29	43.285	143	72.45	86	39.231	100	25.47	5
Aug. 8	43.142	127	71.59	123	39.131	91	25.52	15
18	43.015	107	70.36	159	39.040	78	25.37	36
28	42.908	81	68.77	193	38.962	57	25.01	58
Sept. 7	42.827	49	66.84	223	38.905	31	24.43	81
17	42.778	10	64.61	252	38.874	0	23.62	106
27	42.768	33	62.09	276	38.874	36	22.56	131
Okt. 7	42.801	82	59.33	296	38.910	78	21.25	155
17	42.883	133	56.37	310	38.988	122	19.70	179
27	43.016	187	53.27	319	39.110	167	17.91	200
Nov. 6	43.203	239	50.08	320	39.277	212	15.91	219
16	43.442	287	46.88	313	39.489	253	13.72	232
26	43.729	330	43.75	298	39.742	289	11.40	241
Dez. 6	44.059	364	40.77	274	40.031	317	8.99	242
16	44.423	388	38.03	241	40.348	336	6.57	236
26	44.811	399	35.62	201	40.684	343	4.21	223
36	45.210		33.61		41.027		1.98	
Mittl. Ort	42.587		65.26		38.554		25.39	
sec δ, tg δ	1.281		+0.801		1.020		+0.201	

Tag	490) θ Virginis AR.	Δ	Dekl.	Δ	492) 43 Comae AR.	Δ	Dekl.	Δ
1929	13h 6m		−5° 9′		13h 8m		+28° 13′	
Jan. 1	15.245	339	33.08	215	32.864	364	68.62	197
11	15.584	330	35.23	209	33.228	358	66.65	157
21	15.914	312	37.32	197	33.586	342	65.08	112
31	16.226	286	39.29	180	33.928	315	63.96	64
Feb. 10	16.512	255	41.09	158	34.243	281	63.32	17
20	16.767	220	42.67	134	34.524	242	63.15	29
März 2	16.987	182	44.01	108	34.766	200	63.44	72
12	17.169	145	45.09	82	34.966	156	64.16	108
22	17.314	110	45.91	57	35.122	112	65.24	137
Apr. 1	17.424	77	46.48	35	35.234	72	66.61	160
10	17.501	46	46.83	15	35.306	35	68.21	173
20	17.547	19	46.98	3	35.341	0	69.94	178
30	17.566	6	46.95	17	35.341	30	71.72	177
Mai 10	17.560	27	46.78	29	35.311	55	73.49	169
20	17.533	46	46.49	38	35.256	77	75.18	154
30	17.487	63	46.11	46	35.179	95	76.72	134
Juni 9	17.424	76	45.65	51	35.084	111	78.06	110
19	17.348	88	45.14	54	34.973	121	79.16	84
29	17.260	96	44.60	56	34.852	129	80.00	55
Juli 9	17.164	102	44.04	55	34.723	132	80.55	24
19	17.062	104	43.49	54	34.591	132	80.79	8
29	16.958	102	42.95	50	34.459	128	80.71	40
Aug. 8	16.856	94	42.45	44	34.331	118	80.31	72
18	16.762	82	42.01	35	34.213	102	79.59	104
28	16.680	62	41.66	24	34.111	82	78.55	136
Sept. 7	16.618	36	41.42	8	34.029	54	77.19	166
17	16.582	6	41.34	10	33.975	21	75.53	194
27	16.576	32	41.44	31	33.954	18	73.59	221
Okt. 7	16.608	74	41.75	55	33.972	62	71.38	244
17	16.682	118	42.30	82	34.034	109	68.94	264
27	16.800	165	43.12	109	34.143	159	66.30	279
Nov. 6	16.965	210	44.21	135	34.302	207	63.51	289
16	17.175	252	45.56	160	34.509	254	60.62	291
26	17.427	287	47.16	183	34.763	294	57.71	285
Dez. 6	17.714	315	48.99	200	35.057	327	54.86	272
16	18.029	333	50.99	211	35.384	351	52.14	251
26	18.362	342	53.10	216	35.735	364	49.63	220
36	18.704		55.26		36.099		47.43	
Mittl. Ort	16.301		37.52		33.714		75.47	
sec δ, tg δ	1.004		−0.090		1.135		+0.537	

Scheinbare Sternörter 1929

Tag	495) γ Hydrae AR.		Dekl.		496) ι Centauri AR.		Dekl.		497) ζ Ursae maj. pr. AR.		Dekl.		498) α Virginis AR.		Dekl.	
1929	$13^h 15^m$		$-22° 47'$		$13^h 16^m$		$-36° 20'$		$13^h 21^m$		$+55° 17'$		$13^h 21^m$		$-10° 47'$	
Jan. 1	2.196	358	40.80	200	34.446	394	3.43	180	3.512	496	30.97	171	25.789	343	22.53	209
11	2.554	351	42.80	214	34.840	385	5.23	209	4.008	498	29.26	112	26.132	336	24.62	210
21	2.905	332	44.94	222	35.225	365	7.32	230	4.506	483	28.14	50	26.468	320	26.72	204
31	3.237	306	47.16	222	35.590	337	9.62	245	4.989	452	27.64	13	26.788	296	28.76	193
Feb. 10	3.543	273	49.38	218	35.927	301	12.07	253	5.441	409	27.77	74	27.084	267	30.69	176
20	3.816	238	51.56	208	36.228	262	14.60	255	5.850	356	28.51	129	27.351	234	32.45	157
März 2	4.054	201	53.64	195	36.490	220	17.15	252	6.206	293	29.80	179	27.585	198	34.02	135
12	4.255	162	55.59	178	36.710	178	19.67	244	6.499	226	31.59	218	27.783	162	35.37	113
22	4.417	126	57.37	160	36.888	138	22.11	231	6.725	159	33.77	248	27.945	126	36.50	89
Apr. 1	4.543	91	58.97	140	37.026	98	24.42	215	6.884	91	36.25	266	28.071	94	37.39	68
11	4.634	58	60.37	120	37.124	62	26.57	198	6.975	27	38.91	273	28.165	63	38.07	47
20	4.692	29	61.57	100	37.186	27	28.55	176	7.002	33	41.64	270	28.228	34	38.54	29
30	4.721	2	62.57	80	37.213	5	30.31	153	6.969	87	44.34	256	28.262	9	38.83	13
Mai 10	4.723	23	63.37	59	37.208	35	31.84	129	6.882	134	46.90	234	28.271	14	38.96	1
20	4.700	45	63.96	39	37.173	61	33.13	102	6.748	174	49.24	203	28.257	36	38.95	14
30	4.655	66	64.35	20	37.112	86	34.15	74	6.574	207	51.27	167	28.221	54	38.81	25
Juni 9	4.589	83	64.55	0	37.026	107	34.89	45	6.367	232	52.94	125	28.167	71	38.56	35
19	4.506	98	64.55	18	36.919	126	35.34	16	6.135	252	54.19	80	28.096	86	38.21	42
29	4.408	110	64.37	36	36.793	141	35.50	14	5.883	263	54.99	33	28.010	97	37.79	49
Juli 9	4.298	118	64.01	54	36.652	151	35.36	43	5.620	267	55.32	15	27.913	105	37.30	54
19	4.180	122	63.47	69	36.501	156	34.93	70	5.353	266	55.17	64	27.808	110	36.76	58
29	4.058	121	62.78	81	36.345	154	34.23	96	5.087	255	54.53	112	27.698	111	36.18	60
Aug. 8	3.937	115	61.97	91	36.191	146	33.27	118	4.832	238	53.41	157	27.587	105	35.58	58
18	3.822	101	61.06	98	36.045	130	32.09	136	4.594	213	51.84	200	27.482	93	35.00	54
28	3.721	80	60.08	100	35.915	105	30.73	148	4.381	181	49.84	240	27.389	76	34.46	47
Sept. 7	3.641	53	59.08	96	35.810	72	29.25	155	4.200	139	47.44	276	27.313	52	33.99	36
17	3.588	18	58.12	87	35.738	31	27.70	154	4.061	90	44.68	307	27.261	20	33.63	21
27	3.570	23	57.25	73	35.707	16	26.16	145	3.971	35	41.61	334	27.241	17	33.42	3
Okt. 7	3.593	69	56.52	52	35.723	70	24.71	129	3.936	28	38.27	353	27.258	59	33.39	19
17	3.662	118	56.00	27	35.793	126	23.42	106	3.964	96	34.74	366	27.317	106	33.58	45
27	3.780	169	55.73	2	35.919	183	22.36	76	4.060	166	31.08	371	27.423	154	34.03	73
Nov. 6	3.949	218	55.75	36	36.102	240	21.60	40	4.226	237	27.37	368	27.577	200	34.76	101
16	4.167	264	56.11	70	36.342	290	21.20	0	4.463	305	23.69	354	27.777	244	35.77	129
26	4.431	302	56.81	104	36.632	333	21.20	42	4.768	367	20.15	331	28.021	282	37.06	154
Dez. 6	4.733	332	57.85	136	36.965	366	21.62	83	5.135	420	16.84	299	28.303	313	38.60	177
16	5.065	353	59.21	165	37.331	388	22.45	124	5.555	461	13.85	257	28.616	333	40.37	194
26	5.418	362	60.86	189	37.719	398	23.69	160	6.016	489	11.28	207	28.949	344	42.31	205
36	5.780		62.75		38.117		25.29		6.505		9.21		29.293		44.36	
Mittl. Ort	3.451		51.11		35.872		17.99		4.231		44.61		26.979		28.53	
sec δ, tg δ	1.085		−0.420		1.241		−0.736		1.756		+1.444		1.018		−0.191	

Tag	499) Grb 2001 AR.		Dekl.		500) 69 H. Urs. maj. AR.		Dekl.		501) ζ Virginis AR.		Dekl.		502) 17 H. Can. ven. AR.		Dekl.	
1929	$13^h 24^m$		$+72° 44'$		$13^h 25^m$		$+60° 18'$		$13^h 31^m$		$-0° 13'$		$13^h 31^m$		$+37° 32'$	
Jan. 1	18.83	84	79.51	141	50.21	55	29.10	168	3.253	336	58.65	214	36.758	387	34.38	207
11	19.67	85	78.10	75	50.76	56	27.42	107	3.589	332	60.79	204	37.145	388	32.31	160
21	20.52	84	77.35	9	51.32	54	26.35	42	3.921	319	62.83	187	37.533	377	30.71	107
31	21.36	79	77.26	58	51.86	51	25.93	23	4.240	297	64.70	164	37.910	354	29.64	53
Feb. 10	22.15	72	77.84	121	52.37	46	26.16	85	4.537	270	66.34	139	38.264	322	29.11	2
20	22.87	62	79.05	177	52.83	40	27.01	142	4.807	238	67.73	110	38.586	283	29.13	55
März 2	23.49	51	80.82	224	53.23	33	28.43	191	5.045	203	68.83	81	38.869	239	29.68	102
12	24.00	38	83.06	262	53.56	26	30.34	232	5.248	168	69.64	53	39.108	193	30.70	143
22	24.38	25	85.68	288	53.82	18	32.66	261	5.416	133	70.17	26	39.301	146	32.13	177
Apr. 1	24.63	12	88.56	302	54.00	10	35.27	280	5.549	100	70.43	3	39.447	100	33.90	201
11	24.75	1	91.58	304	54.10	3	38.07	286	^{15}5.649	69	70.46	17	^{15}39.547	56	35.91	215
20	^{13}24.74	14	94.62	293	^{13}54.13	4	40.93	281	5.718	41	70.29	34	39.603	15	38.06	221
30	24.60	25	97.55	273	54.09	11	43.74	266	5.759	15	69.95	47	39.618	20	40.27	217
Mai 10	24.35	35	100.28	242	53.98	17	46.40	242	5.774	9	69.48	56	39.598	53	42.44	206
20	24.00	44	102.70	205	53.81	21	48.82	210	5.765	31	68.92	61	39.545	82	44.50	188
30	23.56	50	104.75	161	53.60	25	50.92	172	5.734	50	68.31	64	39.463	107	46.38	163
Juni 9	23.06	55	106.36	112	53.35	29	52.64	127	5.684	67	67.67	65	39.356	127	48.01	133
19	22.51	60	107.48	60	53.06	30	53.91	81	5.617	81	67.02	63	39.229	143	49.34	100
29	21.91	61	108.08	6	52.76	32	54.72	31	5.536	94	66.39	59	39.086	155	50.34	64
Juli 9	21.30	62	108.14	48	52.44	33	55.03	20	5.442	104	65.80	54	38.931	163	50.98	25
19	20.68	61	107.66	101	52.11	33	54.83	70	5.338	109	65.26	46	38.768	166	51.23	13
29	20.07	58	106.65	152	51.78	31	54.13	119	5.229	110	64.80	38	38.602	163	51.10	53
Aug. 8	19.49	54	105.13	201	51.47	29	52.94	167	5.119	106	64.42	27	38.439	156	50.57	92
18	18.95	49	103.12	245	51.18	27	51.27	211	5.013	97	64.15	15	38.283	142	49.65	130
28	18.46	42	100.67	285	50.91	23	49.16	252	4.916	81	64.00	1	38.141	121	48.35	167
Sept. 7	18.04	34	97.82	321	50.68	18	46.64	288	4.835	59	64.01	17	38.020	93	46.68	202
17	17.70	25	94.61	349	50.50	12	43.76	320	4.776	29	64.18	38	37.927	59	44.66	233
27	17.45	15	91.12	372	50.38	6	40.56	346	4.747	6	64.56	59	37.868	18	42.33	263
Okt. 7	17.30	3	87.40	387	50.32	1	37.10	366	4.753	47	65.15	83	37.850	29	39.70	287
17	17.27	9	83.53	393	50.33	8	33.44	377	4.800	92	65.98	109	37.879	81	36.83	307
27	17.36	22	79.60	392	50.41	17	29.67	380	4.892	139	67.07	133	37.960	135	33.76	321
Nov. 6	17.58	35	75.68	381	50.58	24	25.87	376	5.031	185	68.40	157	38.095	190	30.55	328
16	17.93	47	71.87	359	50.82	32	22.11	360	5.216	229	69.97	179	38.285	243	27.27	327
26	18.40	58	68.28	328	51.14	40	18.51	336	5.445	268	71.76	198	38.528	290	24.00	318
Dez. 6	18.98	68	65.00	288	51.54	46	15.15	301	5.713	300	73.74	211	38.818	331	20.82	299
16	19.66	76	62.12	237	52.00	50	12.14	257	6.013	322	75.85	218	39.149	362	17.83	270
26	20.42	82	59.75	181	52.50	54	9.57	205	6.335	336	78.03	218	39.511	383	15.13	235
36	21.24		57.94		53.04		7.52		6.671		80.21		39.894		12.78	
Mittl. Ort	19.29		95.44		50.92		43.61		4.419		60.70		37.691		44.24	
sec δ, tg δ	3.374		+3.222		2.019		+1.754		1.000		−0.004		1.261		+0.769	

Tag	504) ε Centauri				507) τ Bootis				509) η Ursae maj.				510) 89 Virginis			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
1929	13h 35m		−53° 6′		13h 43m		+17° 48′		13h 44m		+49° 39′		13h 45m		−17° 46′	
Jan. 1	20.581	496	4.05	126	52.164	342	31.43	222	43.781	441	48.59	206	59.192	349	44.44	190
11	21.077	490	5.31	170	52.506	341	29.21	194	44.222	447	46.53	151	59.541	347	46.34	198
21	21.567	470	7.01	207	52.847	332	27.27	159	44.669	440	45.02	91	59.888	335	48.32	202
31	22.037	439	9.08	239	53.179	312	25.68	118	45.109	418	44.11	29	60.223	315	50.34	199
Feb. 10	22.476	400	11.47	265	53.491	287	24.50	77	45.527	385	43.82	32	60.538	289	52.33	190
20	22.876	353	14.12	282	53.778	255	23.73	34	45.912	342	44.14	90	60.827	257	54.23	178
März 2	23.229	304	16.94	294	54.033	219	23.39	6	46.254	292	45.04	142	61.084	225	56.01	162
12	23.533	252	19.88	299	54.252	183	23.45	43	46.546	237	46.46	186	61.309	190	57.63	144
22	23.785	200	22.87	297	54.435	146	23.88	76	46.783	179	48.32	222	61.499	155	59.07	125
Apr. 1	23.985	148	25.84	291	54.581	110	24.64	103	46.962	122	50.54	246	61.654	122	60.32	106
11	24.133	98	28.75	279	54.691	76	25.67	122	47.084	67	53.00	261	61.776	91	61.38	87
20	24.231	49	31.54	262	54.767	44	26.89	136	47.151	13	55.61	264	61.867	62	62.25	69
30	24.280	2	34.16	241	54.811	15	28.25	142	47.164	35	58.25	257	61.929	33	62.94	52
Mai 10	24.282	42	36.57	216	54.826	12	29.67	142	47.129	79	60.82	242	61.962	7	63.46	35
20	24.240	83	38.73	186	54.814	36	31.09	137	47.050	118	63.24	218	61.969	18	63.81	21
30	24.157	123	40.59	153	54.778	57	32.46	127	46.932	151	65.42	187	61.951	40	64.02	6
Juni 9	24.034	159	42.12	118	54.721	77	33.73	113	46.781	179	67.29	151	61.911	61	64.08	7
19	23.875	189	43.30	79	54.644	93	34.86	95	46.602	201	68.80	111	61.850	81	64.01	20
29	23.686	214	44.09	38	54.551	107	35.81	75	46.401	218	69.91	66	61.769	97	63.81	33
Juli 9	23.472	233	44.47	2	54.444	117	36.56	53	46.183	229	70.57	21	61.672	110	63.48	43
19	23.239	243	44.45	43	54.327	124	37.09	28	45.954	233	70.78	25	61.562	120	63.05	53
29	22.996	245	44.02	83	54.203	126	37.37	3	45.721	232	70.53	71	61.442	123	62.52	62
Aug. 8	22.751	236	43.19	120	54.077	123	37.40	23	45.489	222	69.82	117	61.319	122	61.90	67
18	22.515	216	41.99	153	53.954	115	37.17	50	45.267	206	68.65	161	61.197	114	61.23	70
28	22.299	185	40.46	180	53.839	99	36.67	78	45.061	181	67.04	203	61.083	99	60.53	69
Sept. 7	22.114	141	38.66	201	53.740	78	35.89	105	44.880	150	65.01	241	60.984	76	59.84	66
17	21.973	88	36.65	213	53.662	50	34.84	134	44.730	109	62.60	275	60.908	45	59.18	56
27	21.885	24	34.52	217	53.612	14	33.50	160	44.621	61	59.85	306	60.863	7	58.62	42
Okt. 7	21.861	46	32.35	211	53.598	26	31.90	187	44.560	6	56.79	331	60.856	35	58.20	24
17	21.907	122	30.24	196	53.624	72	30.03	211	44.554	54	53.48	349	60.891	84	57.96	2
27	22.029	198	28.28	171	53.696	120	27.92	232	44.608	118	49.99	360	60.975	134	57.94	24
Nov. 6	22.227	273	26.57	137	53.816	168	25.60	250	44.726	184	46.39	364	61.109	185	58.18	53
16	22.500	341	25.20	97	53.984	215	23.10	262	44.910	247	42.75	358	61.294	231	58.71	83
26	22.841	400	24.23	51	54.199	258	20.48	267	45.157	307	39.17	343	61.525	273	59.54	112
Dez. 6	23.241	447	23.72	2	54.457	293	17.81	266	45.464	359	35.74	317	61.798	308	60.66	139
16	23.688	479	23.70	48	54.750	320	15.15	256	45.823	401	32.57	282	62.106	333	62.05	163
26	24.167	497	24.18	98	55.070	338	12.59	238	46.224	430	29.75	238	62.439	348	63.68	182
36	24.664		25.16		55.408		10.21		46.654		27.37		62.787		65.50	
Mittl. Ort	22.547		22.31		53.285		35.75		44.736		61.40		60.597		52.02	
sec δ, tg δ	1.666		−1.332		1.050		+0.321		1.545		+1.178		1.050		−0.321	

Obere Kulmination Greenwich

Tag	512) ζ Centauri AR.		512) ζ Centauri Dekl.		513) η Bootis AR.		513) η Bootis Dekl.		517) 11 Bootis AR.		517) 11 Bootis Dekl.		516) τ Virginis AR.		516) τ Virginis Dekl.	
1929	13h 51m		−46° 56′		13h 51m		+18° 44′		13h 57m		+27° 43′		13h 58m		+1° 52′	
Jan. 1	4.010	450	6.97	122	17.091	341	65.89	228	56.229	353	36.14	230	0.594	332	74.97	215
11	4.460	447	8.19	161	17.432	343	63.61	197	56.582	357	33.84	193	0.926	333	72.82	202
21	4.907	433	9.80	195	17.775	335	61.64	161	56.939	350	31.91	148	1.259	325	70.80	184
31	5.340	409	11.75	221	18.110	317	60.03	120	57.289	335	30.43	100	1.584	308	68.96	160
Feb. 10	5.749	376	13.96	243	18.427	292	58.83	78	57.624	310	29.43	50	1.892	285	67.36	132
20	6.125	338	16.39	257	18.719	262	58.05	34	57.934	278	28.93	0	2.177	257	66.04	102
März 2	6.463	296	18.96	265	18.981	227	57.71	8	58.212	243	28.93	46	2.434	225	65.02	71
12	6.759	251	21.61	269	19.208	191	57.79	46	58.455	205	29.39	88	2.659	192	64.31	41
22	7.010	206	24.30	266	19.399	154	58.25	79	58.660	165	30.27	125	2.851	159	63.90	13
Apr. 1	7.216	161	26.96	259	19.553	118	59.04	106	58.825	126	31.52	154	3.010	127	63.77	13
11	7.377	118	29.55	248	19.671	84	60.10	127	58.951	89	33.06	174	3.137	96	63.90	33
20*)	7.495	76	32.03	233	19.755	52	61.37	141	59.040	53	34.80	186	3.233	66	64.23	50
30	7.571	34	34.36	213	19.807	22	62.78	148	59.093	19	36.66	191	3.299	39	64.73	62
Mai 10	7.605	6	36.49	191	19.829	6	64.26	148	59.112	11	38.57	188	3.338	14	65.35	71
20	7.599	44	38.40	166	19.823	31	65.74	142	59.101	39	40.45	177	3.352	11	66.06	75
30	7.555	79	40.06	138	19.792	53	67.16	132	59.062	64	42.22	161	3.341	33	66.81	77
Juni 9	7.476	113	41.44	106	19.739	74	68.48	117	58.998	87	43.83	141	3.308	54	67.58	75
19	7.363	143	42.50	73	19.665	91	69.65	100	58.911	107	45.24	115	3.254	73	68.33	71
29	7.220	168	43.23	38	19.574	106	70.65	78	58.804	123	46.39	87	3.181	89	69.04	64
Juli 9	7.052	188	43.61	2	19.468	118	71.43	55	58.681	135	47.26	56	3.092	102	69.68	56
19	6.864	202	43.63	34	19.350	126	71.98	30	58.546	144	47.82	24	2.990	112	70.24	47
29	6.662	208	43.29	69	19.224	129	72.28	3	58.402	148	48.06	10	2.878	117	70.71	35
Aug. 8	6.454	204	42.60	101	19.095	127	72.31	24	58.254	147	47.96	44	2.761	118	71.06	22
18	6.250	192	41.59	130	18.968	120	72.07	51	58.107	138	47.52	79	2.643	112	71.28	8
28	6.058	168	40.29	155	18.848	106	71.56	81	57.969	124	46.73	112	2.531	100	71.36	9
Sept. 7	5.890	133	38.74	173	18.742	84	70.75	109	57.845	102	45.61	145	2.431	80	71.27	27
17	5.757	89	37.01	185	18.658	57	69.66	137	57.743	74	44.16	178	2.351	53	71.00	47
27	5.668	35	35.16	188	18.601	22	68.29	165	57.669	38	42.38	208	2.298	20	70.53	70
Okt. 7	5.633	26	33.28	182	18.579	19	66.64	191	57.631	4	40.30	235	2.278	20	69.83	93
17	5.659	93	31.46	169	18.598	64	64.73	216	57.635	52	37.95	260	2.298	64	68.90	117
27	5.752	162	29.77	146	18.662	112	62.57	238	57.687	102	35.35	280	2.362	112	67.73	142
Nov. 6	5.914	230	28.31	115	18.774	162	60.19	255	57.789	154	32.55	294	2.474	160	66.31	165
16	6.144	293	27.16	78	18.936	209	57.64	267	57.943	205	29.61	302	2.634	205	64.66	186
26	6.437	349	26.38	37	19.145	252	54.97	273	58.148	251	26.59	302	2.839	248	62.80	203
Dez. 6	6.786	394	26.01	8	19.397	289	52.24	271	58.399	292	23.57	294	3.087	284	60.77	214
16	7.180	428	26.09	53	19.686	318	49.53	260	58.691	323	20.63	277	3.371	310	58.63	220
26	7.608	448	26.62	97	20.004	337	46.93	243	59.014	346	17.86	251	3.681	328	56.43	220
36	8.056		27.59		20.341		44.50		59.360		15.35		4.009		54.23	
Mittl. Ort	5.946		23.01		18.249		70.64		57.377		43.70		1.897		74.40	
sec δ, tg δ	1.465		−1.070		1.056		+0.340		1.130		+0.526		1.000		+0.033	

*) Bei Stern 517) und 516) lies April 21

Tag	518) β Centauri AR.		518) β Centauri Dekl.		521) α Draconis AR.		521) α Draconis Dekl.		520) ϑ Centauri AR.		520) ϑ Centauri Dekl.		522) d Bootis AR.		522) d Bootis Dekl.	
1929	$13^h 58^m$		$-60° 1'$		$14^h 2^m$		$+64° 42'$		$14^h 2^m$		$-36° 1'$		$14^h 7^m$		$+25° 25'$	
Jan. 1	45.23	58	34.98	78	26.89	59	37.97	205	27.985	392	5.04	140	8.488	345	31.11	235
11	45.81	58	35.76	127	27.48	61	35.92	143	28.377	393	6.44	168	8.833	351	28.76	200
21	46.39	56	37.03	171	28.09	61	34.49	78	28.770	383	8.12	191	9.184	347	26.76	158
31	46.95	53	38.74	210	28.70	60	33.71	10	29.153	364	10.03	208	9.531	332	25.18	111
Feb. 10	47.48	49	40.84	243	29.30	56	33.61	55	29.517	338	12.11	220	9.863	309	24.07	63
20	47.97	45	43.27	269	29.86	50	34.16	117	29.855	305	14.31	225	10.172	281	23.44	14
März 2	48.42	40	45.96	289	30.36	43	35.33	173	30.160	270	16.56	225	10.453	247	23.30	32
12	48.82	34	48.85	302	30.79	36	37.06	220	30.430	232	18.81	222	10.700	210	23.62	75
22	49.16	27	51.87	308	31.15	27	39.26	257	30.662	195	21.03	214	10.910	173	24.37	111
Apr. 1	49.43	22	54.95	308	31.42	18	41.83	282	30.857	158	23.17	204	11.083	135	25.48	141
11	49.65	16	58.03	304	31.60	9	44.65	297	31.015	121	25.21	190	11.218	99	26.89	163
21	49.81	9	61.07	292	31.69	1	47.62	299	31.136	86	27.11	175	11.317	64	28.52	177
30	49.90	4	63.99	276	31.70	7	50.61	289	31.222	52	28.86	157	11.381	31	30.29	184
Mai 10	49.94	2	66.75	254	31.63	15	53.50	271	31.274	18	30.43	139	11.412	0	32.13	183
20	49.92	8	69.29	227	31.48	22	56.21	243	31.292	14	31.82	117	11.412	27	33.96	174
30	49.84	13	71.56	197	31.26	27	58.64	208	31.278	44	32.99	94	11.385	54	35.70	160
Juni 9	49.71	18	73.53	161	30.99	32	60.72	166	31.234	73	33.93	71	11.331	77	37.30	142
19	49.53	22	75.14	123	30.67	36	62.38	121	31.161	100	34.64	45	11.254	98	38.72	119
29	49.31	26	76.37	80	30.31	39	63.59	70	31.061	123	35.09	19	11.156	115	39.91	92
Juli 9	49.05	29	77.17	37	29.92	41	64.29	19	30.938	142	35.28	7	11.041	130	40.83	63
19	48.76	31	77.54	8	29.51	42	64.48	34	30.796	157	35.21	34	10.911	140	41.46	32
29	48.45	32	77.46	53	29.09	41	64.14	85	30.639	164	34.87	59	10.771	146	41.78	0
Aug. 8	48.13	31	76.93	96	28.68	40	63.29	135	30.475	165	34.28	82	10.625	146	41.78	32
18	47.82	29	75.97	136	28.28	39	61.94	184	30.310	157	33.46	103	10.479	140	41.46	65
28	47.53	26	74.61	171	27.89	35	60.10	229	30.153	141	32.43	119	10.339	126	40.81	99
Sept. 7	47.27	22	72.90	200	27.54	29	57.81	271	30.012	114	31.24	131	10.213	107	39.82	132
17	47.05	16	70.90	221	27.25	24	55.10	307	29.898	79	29.93	136	10.106	80	38.50	163
27	46.89	8	68.69	233	27.01	18	52.03	338	29.819	35	28.57	134	10.026	45	36.87	193
Okt. 7	46.81	0	66.36	237	26.83	10	48.65	363	29.784	16	27.23	126	9.981	4	34.94	222
17	46.81	9	63.99	229	26.73	1	45.02	380	29.800	72	25.97	110	9.977	42	32.72	247
27	46.90	19	61.70	210	26.72	8	41.22	390	29.872	131	24.87	88	10.019	92	30.25	268
Nov. 6	47.09	27	59.60	183	26.80	18	37.32	390	30.003	191	23.99	59	10.111	144	27.57	285
16	47.36	36	57.77	148	26.98	27	33.42	380	30.194	246	23.40	26	10.255	194	24.72	294
26	47.72	43	56.29	104	27.25	36	29.62	360	30.440	297	23.14	10	10.449	241	21.78	297
Dez. 6	48.15	50	55.25	55	27.61	44	26.02	330	30.737	339	23.24	48	10.690	282	18.81	291
16	48.65	54	54.70	5	28.05	51	22.72	289	31.076	370	23.72	86	10.972	314	15.90	277
26	49.19	57	54.65	47	28.56	57	19.83	240	31.446	389	24.58	120	11.286	338	13.13	254
36	49.76		55.12		29.13		17.43		31.835		25.78		11.624		10.59	
Mittl. Ort	47.78		53.51		27.96		53.28		29.761		17.61		9.700		38.14	
sec δ, tg δ	2.002		−1.734		2.341		+2.117		1.236		−0.727		1.107		+0.475	

Tag	524) 4 Ursae min. AR.	Δ	524) Dekl.	Δ	523) κ Virginis AR.	Δ	523) Dekl.	Δ	525) ι Virginis AR.	Δ	525) Dekl.	Δ	526) α Bootis AR.	Δ	526) Dekl.	Δ
1929	14ʰ 9ᵐ		+77° 52′		14ʰ 9ᵐ		−9° 56′		14ʰ 12ᵐ		−5° 39′		14ʰ 12ᵐ		+19° 32′	
Jan. 1	4.46	106	35.84	189	4.851	336	34.39	193	15.856	332	42.46	202	24.067	333	59.40	240
11	5.52	112	33.95	125	5.187	338	36.32	195	16.188	334	44.48	199	24.400	340	57.00	210
21	6.64	114	32.70	59	5.525	331	38.27	189	16.522	329	46.47	189	24.740	335	54.90	174
31	7.78	112	32.11	10	5.856	316	40.16	178	16.851	314	48.36	172	25.075	321	53.16	132
Feb. 10	8.90	106	32.21	76	6.172	294	41.94	162	17.165	293	50.08	153	25.396	301	51.84	88
20	9.96	96	32.97	137	6.466	267	43.56	143	17.458	267	51.61	130	25.697	273	50.96	44
März 2	10.92	83	34.34	193	6.733	237	44.99	122	17.725	237	52.91	104	25.970	242	50.52	0
12	11.75	68	36.27	239	6.970	206	46.21	99	17.962	206	53.95	79	26.212	208	50.52	41
22	12.43	51	38.66	273	7.176	174	47.20	76	18.168	175	54.74	54	26.420	172	50.93	76
Apr. 1	12.94	32	41.39	297	7.350	142	47.96	55	18.343	143	55.28	31	26.592	137	51.69	106
11	13.26	13	44.36	308	7.492	112	48.51	35	18.486	112	55.59	10	26.729	103	52.75	128
21	13.39	5	47.44	307	7.604	82	48.86	18	18.598	84	55.69	6	26.832	70	54.03	144
30	[24] 13.34	22	50.51	296	[24] 7.686	54	49.04	4	[25] 18.682	56	55.63	21	[25] 26.902	39	55.47	153
Mai 10	13.12	39	53.47	273	7.740	28	49.08	9	18.738	29	55.42	31	26.941	10	57.00	154
20	12.73	53	56.20	243	7.768	2	48.99	20	18.767	4	55.11	40	26.951	17	58.54	150
30	12.20	66	58.63	204	7.770	22	48.79	28	18.771	21	54.71	46	26.934	42	60.04	140
Juni 9	11.54	77	60.67	159	7.748	45	48.51	34	18.750	43	54.25	49	26.892	66	61.44	126
19	10.77	85	62.26	110	7.703	66	48.17	40	18.707	64	53.76	52	26.826	87	62.70	108
29	9.92	91	63.36	58	7.637	85	47.77	44	18.643	84	53.24	51	26.739	105	63.78	85
Juli 9	9.01	95	63.94	3	7.552	101	47.33	46	18.559	99	52.73	49	26.634	120	64.63	62
19	8.06	97	63.97	50	7.451	113	46.87	48	18.460	113	52.24	47	26.514	132	65.25	35
29	7.09	96	63.47	103	7.338	122	46.39	49	18.347	120	51.77	43	26.382	138	65.60	8
Aug. 8	6.13	92	62.44	155	7.216	123	45.90	46	18.227	123	51.34	37	26.244	140	65.68	21
18	5.21	88	60.89	203	7.093	119	45.44	43	18.104	119	50.97	29	26.104	136	65.47	50
28	4.33	81	58.86	248	6.974	109	45.01	36	17.985	109	50.68	19	25.968	124	64.97	79
Sept. 7	3.52	70	56.38	288	6.865	89	44.65	26	17.876	91	50.49	6	25.844	105	64.18	109
17	2.82	59	53.50	324	6.776	62	44.39	14	17.785	64	50.43	9	25.739	80	63.09	139
27	2.23	46	50.26	352	6.714	29	44.25	2	17.721	32	50.52	27	25.659	46	61.70	167
Okt. 7	1.77	31	46.74	375	6.685	12	44.27	21	17.689	8	50.79	48	25.613	7	60.03	195
17	1.46	15	42.99	390	6.697	58	44.48	43	17.697	53	51.27	71	25.606	38	58.08	222
27	1.31	3	39.09	395	6.755	107	44.91	67	17.750	101	51.98	95	25.644	87	55.86	243
Nov. 6	1.34	22	35.14	392	6.862	156	45.58	93	17.851	151	52.93	119	25.731	137	53.43	262
16	1.56	40	31.22	378	7.018	204	46.51	118	18.002	197	54.12	143	25.868	186	50.81	275
26	1.96	58	27.44	355	7.222	247	47.69	142	18.199	241	55.55	164	26.054	232	48.06	282
Dez. 6	2.54	74	23.89	322	7.469	285	49.11	162	18.440	279	57.19	182	26.286	272	45.24	282
16	3.28	88	20.67	278	7.754	312	50.73	179	18.719	307	59.01	194	26.558	304	42.42	272
26	4.16	100	17.89	225	8.066	332	52.52	190	19.026	327	60.95	202	26.862	326	39.70	254
36	5.16		15.64		8.398		54.42		19.353		62.97		27.188		37.16	
Mittl. Ort	5.75		52.20		6.315		38.55		17.298		45.11		25.338		64.79	
sec δ, tg δ	4.763		+4.657		1.015		−0.175		1.005		−0.099		1.061		+0.355	

Tag	527) λ Bootis AR.		527) λ Bootis Dekl.		531) ϑ Bootis AR.		531) ϑ Bootis Dekl.		534) ρ Bootis AR.		534) ρ Bootis Dekl.		535) γ Bootis AR.		535) γ Bootis Dekl.	
1929	14h 13m		+46° 24′		14h 22m		+52° 10′		14h 28m		+30° 40′		14h 29m		+38° 36′	
Jan. 1	39.976	406	36.80	236	45.572	433	28.43	243	44.913	345	47.52	248	11.889	365	54.34	251
11	40.382	418	34.44	184	46.005	452	26.00	188	45.258	357	45.04	210	12.254	379	51.83	206
21	40.800	419	32.60	127	46.457	456	24.12	128	45.615	357	42.94	164	12.633	381	49.77	155
31	41.219	406	31.33	67	46.913	445	22.84	66	45.972	347	41.30	113	13.014	372	48.22	98
Feb. 10	41.625	382	30.66	6	47.358	422	22.18	1	46.319	329	40.17	61	13.386	352	47.24	40
20	42.007	347	30.60	55	47.780	388	22.17	62	46.648	303	39.56	8	13.738	325	46.84	17
März 2	42.354	305	31.15	110	48.168	344	22.79	119	46.951	271	39.48	43	14.063	291	47.01	71
12	42.659	259	32.25	158	48.512	292	23.98	170	47.222	235	39.91	90	14.354	252	47.72	122
22	42.918	209	33.83	199	48.804	237	25.68	213	47.457	198	40.81	131	14.606	209	48.94	163
Apr. 1	43.127	157	35.82	231	49.041	179	27.81	245	47.655	160	42.12	164	14.815	166	50.57	197
11	43.284	105	38.13	251	49.220	120	30.26	266	47.815	121	43.76	188	14.981	123	52.54	222
21	43.389	56	40.64	261	49.340	63	32.92	277	47.936	83	45.64	205	15.104	81	54.76	237
30	43.445	10	43.25	261	49.403	9	35.69	277	48.019	48	47.69	213	15.185	40	57.13	243
Mai 10	43.455	35	45.86	253	49.412	43	38.46	267	48.067	14	49.82	211	15.225	1	59.56	239
20	43.420	75	48.39	234	49.369	90	41.13	249	48.081	19	51.93	204	15.226	35	61.95	227
30	43.345	111	50.73	210	49.279	133	43.62	222	48.062	49	53.97	188	15.191	69	64.22	207
Juni 9	43.234	143	52.83	177	49.146	171	45.84	188	48.013	76	55.85	167	15.122	99	66.29	182
19	43.091	171	54.60	141	48.975	203	47.72	149	47.937	101	57.52	141	15.023	127	68.11	151
29	42.920	192	56.01	101	48.772	230	49.21	106	47.836	123	58.93	112	14.896	150	69.62	116
Juli 9	42.728	210	57.02	57	48.542	251	50.27	61	47.713	142	60.05	79	14.746	169	70.78	78
19	42.518	221	57.59	13	48.291	265	50.88	13	47.571	155	60.84	44	14.577	183	71.56	38
29	42.297	226	57.72	33	48.026	272	51.01	36	47.416	165	61.28	8	14.394	193	71.94	3
Aug. 8	42.071	225	57.39	79	47.754	270	50.65	84	47.251	168	61.36	29	14.201	195	71.91	46
18	41.846	216	56.60	124	47.484	261	49.81	131	47.083	165	61.07	66	14.006	191	71.45	87
28	41.630	198	55.36	166	47.223	243	48.50	176	46.918	154	60.41	104	13.815	178	70.58	129
Sept. 7	41.432	172	53.70	207	46.980	216	46.74	219	46.764	136	59.37	140	13.637	159	69.29	169
17	41.260	139	51.63	246	46.764	178	44.55	259	46.628	110	57.97	175	13.478	130	67.60	206
27	41.121	95	49.17	279	46.586	132	41.96	294	46.518	77	56.22	208	13.348	94	65.54	241
Okt. 7	41.026	46	46.38	308	46.454	78	39.02	324	46.441	35	54.14	239	13.254	50	63.13	272
17	40.980	11	43.30	333	46.376	16	35.78	349	46.406	12	51.75	266	13.204	1	60.41	299
27	40.991	72	39.97	349	46.360	51	32.29	365	46.418	63	49.09	289	13.205	56	57.42	321
Nov. 6	41.063	135	36.48	359	46.411	121	28.64	375	46.481	117	46.20	304	13.261	114	54.21	335
16	41.198	199	32.89	361	46.532	192	24.89	374	46.598	171	43.16	315	13.375	172	50.86	341
26	41.397	259	29.28	350	46.724	259	21.15	364	46.769	222	40.01	317	13.547	227	47.45	340
Dez. 6	41.656	312	25.78	332	46.983	321	17.51	344	46.991	267	36.84	311	13.774	278	44.05	328
16	41.968	357	22.46	304	47.304	373	14.07	314	47.258	305	33.73	294	14.052	319	40.77	306
26	42.325	391	19.42	265	47.677	414	10.93	272	47.563	335	30.79	268	14.371	351	37.71	275
36	42.716		16.77		48.091		8.21		47.898		28.11		14.722		34.96	
Mittl. Ort	41.158		49.13		46.820		41.85		46.229		56.24		13.188		65.01	
sec δ, tg δ	1.450		+1.051		1.631		+1.288		1.163		+0.593		1.280		+0.799	

Tag	537) η Centauri AR.		537) η Centauri Dekl.		538) α Centauri [1] AR.		538) α Centauri [1] Dekl.	
1929	14h 30m		−41° 50′		14h 34m		−60° 32′	
Jan. 1	57.262s	414	36.48″	95	43.21s	57	18.54″	38
11	57.676	420	37.43	127	43.78	58	18.92	85
21	58.096	417	38.70	155	44.36	58	19.77	130
31	58.513	404	40.25	180	44.94	56	21.07	171
Feb. 10	58.917	381	42.05	198	45.50	52	22.78	205
20	59.298	352	44.03	212	46.02	48	24.83	235
März 2	59.650	319	46.15	219	46.50	44	27.18	257
12	59.969	283	48.34	223	46.94	38	29.75	275
22	60.252	246	50.57	222	47.32	33	32.50	285
Apr. 1	60.498	207	52.79	218	47.65	26	35.35	291
11	60.705	169	54.97	211	47.91	21	38.26	290
21	60.874	130	57.08	200	48.12	14	41.16	285
30*)	30 61.004	92	59.08	186	48.26	9	44.01	273
Mai 10	61.096	53	60.94	171	1 48.35	2	46.74	258
20	61.149	15	62.65	152	48.37	4	49.32	236
30	61.164	21	64.17	131	48.33	10	51.68	210
Juni 9	61.143	58	65.48	107	48.23	15	53.78	180
19	61.085	92	66.55	81	48.08	21	55.58	145
29	60.993	123	67.36	54	47.87	25	57.03	107
Juli 9	60.870	150	67.90	25	47.62	29	58.10	66
19	60.720	170	68.15	5	47.33	32	58.76	23
29	60.550	186	68.10	34	47.01	34	58.99	21
Aug. 8	60.364	192	67.76	64	46.67	34	58.78	65
18	60.172	189	67.12	90	46.33	33	58.13	105
28	59.983	176	66.22	114	46.00	31	57.08	144
Sept. 7	59.807	153	65.08	133	45.69	27	55.64	177
17	59.654	117	63.75	146	45.42	21	53.87	203
27	59.537	73	62.29	153	45.21	14	51.84	221
Okt. 7	59.464	20	60.76	152	45.07	6	49.63	231
17	59.444	39	59.24	144	45.01	2	47.32	230
27	59.483	104	57.80	128	45.03	12	45.02	220
Nov. 6	59.587	170	56.52	105	45.15	22	42.82	199
16	59.757	232	55.47	76	45.37	31	40.83	170
26	59.989	290	54.71	42	45.68	39	39.13	133
Dez. 6	60.279	339	54.29	5	46.07	46	37.80	89
16	60.618	379	54.24	34	46.53	52	36.91	42
26	60.997	406	54.58	71	47.05	55	36.49	7
36	61.403		55.29		47.60		36.56	
Mittl. Ort	59.385		49.12		46.14		35.09	
sec δ, tg δ	1.342		−0.896		2.034		−1.771	

Tag	543) ζ Bootis med. AR.		543) ζ Bootis med. Dekl.		542) α Apodis AR.		542) α Apodis Dekl.	
1929	14h 37m		+14° 1′		14h 38m		−78° 44′	
Jan. 1	44.012s	322	50.70″	235	50.42s	129	25.39″	32
11	44.334	331	48.35	212	51.71	133	25.07	25
21	44.665	331	46.23	181	53.04	134	25.32	80
31	44.996	322	44.42	146	54.38	131	26.12	133
Feb. 10	45.318	306	42.96	106	55.69	126	27.45	181
20	45.624	283	41.90	65	56.95	119	29.26	224
März 2	45.907	256	41.25	24	58.14	108	31.50	262
12	46.163	226	41.01	16	59.22	95	34.12	292
22	46.389	195	41.17	51	60.17	82	37.04	316
Apr. 1	46.584	163	41.68	81	60.99	68	40.20	333
11	46.747	131	42.49	106	61.67	52	43.53	343
21	46.878	100	43.55	125	62.19	36	46.96	346
30*)	46.978	70	44.80	136	62.55	19	50.42	342
Mai 10	2 47.048	40	46.16	143	62.74	2	53.84	332
20	47.088	12	47.59	142	62.76	15	57.16	313
30	47.100	15	49.01	136	62.61	30	60.29	288
Juni 9	47.085	41	50.37	127	62.31	46	63.17	256
19	47.044	65	51.64	113	61.85	61	65.73	219
29	46.979	87	52.77	96	61.24	72	67.92	175
Juli 9	46.892	106	53.73	77	60.52	83	69.67	127
19	46.786	122	54.50	55	59.69	90	70.94	76
29	46.664	133	55.05	32	58.79	94	71.70	22
Aug. 8	46.531	139	55.37	7	57.85	95	71.92	33
18	46.392	139	55.44	18	56.90	94	71.59	86
28	46.253	131	55.26	44	55.96	88	70.73	138
Sept. 7	46.122	116	54.82	71	55.08	77	69.35	183
17	46.006	94	54.11	99	54.31	63	67.52	224
27	45.912	64	53.12	127	53.68	47	65.28	255
Okt. 7	45.848	26	51.85	154	53.21	27	62.73	277
17	45.822	18	50.31	179	52.94	6	59.96	286
27	45.840	64	48.52	204	52.88	17	57.10	286
Nov. 6	45.904	115	46.48	226	53.05	39	54.24	273
16	46.019	164	44.22	242	53.44	61	51.51	249
26	46.183	211	41.80	254	54.05	82	49.02	215
Dez. 6	46.394	252	39.26	259	54.87	99	46.87	171
16	46.646	287	36.67	255	55.86	113	45.16	121
26	46.933	312	34.12	245	56.99	125	43.95	68
36	47.245		31.67		58.24		43.27	
Mittl. Ort	45.448		54.91		57.09		43.90	
sec δ, tg δ	1.031		+0.250		5.124		−5.025	

*) Bei Stern 538), 543) und 542) lies Mai 1

[1] Ort des hellen Sterns; die jährliche Parallaxe (0.″75) ist bereits berücksichtigt.

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Tag	545) μ Virginis AR.		545) μ Virginis Dekl.		547) 109 Virginis AR.		547) 109 Virginis Dekl.		548) α Librae AR.		548) α Librae Dekl.		549) Grb 2164 AR.		549) Grb 2164 Dekl.	
1929	14h 39m		−5° 21′		14h 42m		+2° 11′		14h 46m		−15° 44′		14h 49m		+59° 34′	
Jan. 1	17.359	323	0.30	196	37.918	318	26.88	212	55.056	330	47.51	163	36.602	468	40.45	261
11	17.682	331	2.26	192	38.236	327	24.76	200	55.386	341	49.14	171	37.070	504	37.84	207
21	18.013	330	4.18	182	38.563	326	22.76	183	55.727	341	50.85	172	37.574	520	35.77	145
31	18.343	320	6.00	167	38.889	318	20.93	160	56.068	331	52.57	168	38.094	520	34.32	80
Feb. 10	18.663	304	7.67	147	39.207	302	19.33	132	56.399	316	54.25	160	38.614	505	33.52	13
20	18.967	282	9.14	123	39.509	281	18.01	101	56.715	294	55.85	147	39.119	473	33.39	53
März 2	19.249	256	10.37	98	39.790	256	17.00	69	57.009	269	57.32	132	39.592	429	33.92	115
12	19.505	228	11.35	73	40.046	228	16.31	38	57.278	241	58.64	114	40.021	374	35.07	171
22	19.733	198	12.08	47	40.274	198	15.93	8	57.519	213	59.78	96	40.395	312	36.78	218
Apr. 1	19.931	169	12.55	24	40.472	168	15.85	19	57.732	183	60.74	78	40.707	245	38.96	254
11	20.100	139	12.79	3	40.640	139	16.04	41	57.915	153	61.52	62	40.952	174	41.50	281
21	20.239	110	12.82	13	40.779	109	16.45	59	58.068	125	62.14	46	41.126	103	44.31	296
Mai 1	20.349	82	12.69	28	40.888	81	17.04	73	58.193	95	62.60	32	41.229	34	47.27	299
10	20.431	55	12.41	38	40.969	53	17.77	82	58.288	65	62.92	20	41.263	33	50.26	293
20	20.486	27	12.03	46	41.022	25	18.59	87	58.353	37	63.12	9	41.230	97	53.19	276
30	20.513	0	11.57	51	41.047	1	19.46	87	58.390	9	63.21	0	41.133	155	55.95	250
Juni 9	20.513	26	11.06	53	41.046	27	20.33	86	58.399	19	63.21	8	40.978	208	58.45	218
19	20.487	50	10.53	54	41.019	52	21.19	80	58.380	47	63.13	16	40.770	254	60.63	178
29	20.437	73	9.99	53	40.967	75	21.99	73	58.333	72	62.97	23	40.516	293	62.41	135
Juli 9	20.364	93	9.46	50	40.892	95	22.72	64	58.261	94	62.74	29	40.223	324	63.76	87
19	20.271	110	8.96	46	40.797	112	23.36	52	58.167	113	62.45	35	39.899	347	64.63	38
29	20.161	123	8.50	41	40.685	124	23.88	40	58.054	128	62.10	40	39.552	362	65.01	13
Aug. 8	20.038	130	8.09	35	40.561	131	24.28	27	57.926	137	61.70	43	39.190	366	64.88	65
18	19.908	130	7.74	26	40.430	133	24.55	11	57.789	138	61.27	46	38.824	361	64.23	115
28	19.778	123	7.48	16	40.297	126	24.66	6	57.651	132	60.81	45	38.463	344	63.08	163
Sept. 7	19.655	109	7.32	4	40.171	112	24.60	24	57.519	118	60.36	42	38.119	316	61.45	210
17	19.546	86	7.28	10	40.059	90	24.36	44	57.401	95	59.94	36	37.803	277	59.35	252
27	19.460	55	7.38	27	39.969	61	23.92	65	57.306	63	59.58	26	37.526	227	56.83	292
Okt. 7	19.405	18	7.65	47	39.908	24	23.27	88	57.243	24	59.32	13	37.299	165	53.91	325
17	19.387	27	8.12	69	39.884	19	22.39	112	57.219	22	59.19	5	37.134	96	50.66	352
27	19.414	74	8.81	91	39.903	67	21.27	135	57.241	71	59.24	25	37.038	18	47.14	373
Nov. 6	19.488	124	9.72	115	39.970	116	19.92	158	57.312	123	59.49	48	37.020	65	43.41	384
16	19.612	173	10.87	137	40.086	164	18.34	179	57.435	175	59.97	72	37.085	150	39.57	387
26	19.785	219	12.24	157	40.250	211	16.55	196	57.610	222	60.69	96	37.235	233	35.70	379
Dez. 6	20.004	259	13.81	175	40.461	251	14.59	209	57.832	264	61.65	119	37.468	312	31.91	360
16	20.263	291	15.56	188	40.712	284	12.50	215	58.096	298	62.84	140	37.780	382	28.31	331
26	20.554	316	17.44	194	40.996	310	10.35	215	58.394	324	64.24	155	38.162	439	25.00	291
36	20.870		19.38		41.306		8.20		58.718		65.79		38.601		22.09	
Mittl. Ort	18.943		1.94		39.456		27.66		56.791		52.02		38.120		54.85	
sec δ, tg δ	1.004		−0.094		1.001		+0.038		1.039		−0.282		1.975		+1.703	

Tag	550) β Ursae min.				551) Pi XIV, 221				552) β Lupi				555) β Bootis			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
1929	14h 50m		+74° 26′		14h 52m		+14° 43′		14h 53m		−42° 50′		14h 59m		+40° 39′	
Jan. 1	51.63	77	28.62	244	50.592	315	51.05	239	49.963	411	45.95	67	14.807	351	59.79	273
11	52.40	85	26.18	187	50.907	327	48.66	215	50.374	423	46.62	100	15.158	373	57.06	230
21	53.25	88	24.31	122	51.234	330	46.51	185	50.797	425	47.62	129	15.531	382	54.76	178
31	54.13	90	23.09	54	51.564	324	44.66	150	51.222	417	48.91	154	15.913	381	52.98	122
Feb. 10	55.03	88	22.55	14	51.888	310	43.16	109	51.639	399	50.45	175	16.294	368	51.76	62
20	55.91	83	22.69	80	52.198	290	42.07	67	52.038	374	52.20	190	16.662	347	51.14	2
März 2	56.74	75	23.49	142	52.488	265	41.40	25	52.412	346	54.10	201	17.009	318	51.12	56
12	57.49	65	24.91	196	52.753	238	41.15	15	52.758	312	56.11	208	17.327	283	51.68	110
22	58.14	53	26.87	241	52.991	207	41.30	53	53.070	277	58.19	210	17.610	244	52.78	157
Apr. 1	58.67	40	29.28	276	53.198	177	41.83	85	53.347	240	60.29	209	17.854	203	54.35	195
11	59.07	26	32.04	299	53.375	146	42.68	111	53.587	203	62.38	205	18.057	159	56.30	226
21	59.33	11	35.03	310	53.521	114	43.79	130	53.790	163	64.43	198	18.216	115	58.56	245
Mai 1	59.44	2	38.13	309	53.635	83	45.09	143	[6] 53.953	124	66.41	188	18.331	73	61.01	256
10	[5] 59.42	16	41.22	299	[5] 53.718	54	46.52	150	54.077	85	68.29	175	[7] 18.404	30	63.57	256
20	59.26	28	44.21	277	53.772	24	48.02	151	54.162	44	70.04	161	18.434	10	66.13	248
30	58.98	40	46.98	248	53.796	5	49.53	145	54.206	4	71.65	142	18.424	48	68.61	231
Juni 9	58.58	50	49.46	211	53.791	32	50.98	136	54.210	36	73.07	121	18.376	84	70.92	209
19	58.08	59	51.57	167	53.759	58	52.34	122	54.174	73	74.28	98	18.292	117	73.01	179
29	57.49	66	53.24	120	53.701	82	53.56	104	54.101	109	75.26	73	18.175	146	74.80	144
Juli 9	56.83	72	54.44	69	53.619	103	54.60	84	53.992	141	75.99	44	18.029	172	76.24	107
19	56.11	75	55.13	17	53.516	122	55.44	63	53.851	168	76.43	16	17.857	193	77.31	66
29	55.36	77	55.30	36	53.394	135	56.07	38	53.683	188	76.59	14	17.664	207	77.97	23
Aug. 8	54.59	78	54.94	90	53.259	143	56.45	13	53.495	199	76.45	44	17.457	216	78.20	21
18	53.81	75	54.04	141	53.116	146	56.58	13	53.296	201	76.01	72	17.241	216	77.99	64
28	53.06	72	52.63	190	52.970	141	56.45	41	53.095	193	75.29	97	17.025	210	77.35	108
Sept. 7	52.34	66	50.73	236	52.829	127	56.04	68	52.902	173	74.32	119	16.815	194	76.27	151
17	51.68	59	48.37	278	52.702	107	55.36	97	52.729	142	73.13	136	16.621	169	74.76	192
27	51.09	50	45.59	315	52.595	78	54.39	124	52.587	100	71.77	147	16.452	135	72.84	229
Okt. 7	50.59	39	42.44	345	52.517	42	53.15	153	52.487	48	70.30	151	16.317	93	70.55	264
17	50.20	26	38.99	370	52.475	1	51.62	180	52.439	11	68.79	148	16.224	43	67.91	295
27	49.94	13	35.29	386	52.476	48	49.82	204	52.450	76	67.31	136	16.181	13	64.96	320
Nov. 6	49.81	2	31.43	394	52.524	99	47.78	226	52.526	143	65.95	118	16.194	71	61.76	338
16	49.83	18	27.49	391	52.623	149	45.52	244	52.669	208	64.77	93	16.265	132	58.38	349
26	50.01	32	23.58	379	52.772	196	43.08	256	52.877	269	63.84	62	16.397	191	54.89	350
Dez. 6	50.33	46	19.79	355	52.968	239	40.52	261	53.146	323	63.22	29	16.588	246	51.39	342
16	50.79	60	16.24	321	53.207	275	37.91	259	53.469	367	62.93	7	16.834	295	47.97	324
26	51.39	71	13.03	277	53.482	304	35.32	248	53.836	400	63.00	44	17.129	332	44.73	296
36	52.10		10.26		53.786		32.84		54.236		63.44		17.461		41.77	
Mittl. Ort	53.59		44.38		52.102		55.74		52.282		57.43		16.293		70.92	
sec δ, tg δ	3.729		+3.593		1.034		+0.263		1.364		−0.928		1.318		+0.859	

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Tag	556) γ Scorpii AR.		556) γ Scorpii Dekl.		557) ψ Bootis AR.		557) ψ Bootis Dekl.		558) ζ Lupi AR.		558) ζ Lupi Dekl.		560) γ Triang. austr. AR.		560) γ Triang. austr. Dekl.	
1929	14h 59m		−25° 0′		15h 1m		+27° 12′		15h 7m		−51° 49′		15h 12m		−68° 24′	
Jan. 1	52.618s	344	8.41″	124	22.676s	321	76.61″	261	7.514s	463	36.63″	18	10.96s	71	53.71″	47
11	52.962	355	9.65	141	22.997	338	74.00	228	7.977	483	36.81	58	11.67	74	53.24	2
21	53.317	358	11.06	153	23.335	344	71.72	187	8.460	489	37.39	95	12.41	76	53.26	51
31	53.675	351	12.59	160	23.679	341	69.85	140	8.949	484	38.34	129	13.17	77	53.77	98
Feb. 10	54.026	337	14.19	161	24.020	329	68.45	90	9.433	468	39.63	159	13.94	74	54.75	140
20	54.363	317	15.80	159	24.349	309	67.55	38	9.901	443	41.22	183	14.68	71	56.15	180
März 2	54.680	292	17.39	152	24.658	285	67.17	14	10.344	413	43.05	203	15.39	66	57.95	214
12	54.972	266	18.91	144	24.943	255	67.31	62	10.757	378	45.08	219	16.05	61	60.09	242
22	55.238	236	20.35	133	25.198	223	67.93	105	11.135	338	47.27	229	16.66	54	62.51	266
Apr. 1	55.474	207	21.68	121	25.421	189	68.98	142	11.473	296	49.56	236	17.20	47	65.17	283
11	55.681	177	22.89	109	25.610	154	70.40	171	11.769	251	51.92	238	17.67	40	68.00	294
21	55.858	146	23.98	97	25.764	119	72.11	192	12.020	206	54.30	237	18.07	32	70.94	301
Mai 1	56.004	115	24.95	85	25.883	84	74.03	205	12.226	159	56.67	231	18.39	23	73.95	300
10	[7] 56.119	84	25.80	73	[8] 25.967	50	76.08	209	[9] 12.385	109	58.98	221	[10] 18.62	15	76.95	295
20	56.203	52	26.53	61	26.017	17	78.17	206	12.494	60	61.19	207	18.77	6	79.90	282
30	56.255	20	27.14	49	26.034	16	80.23	196	12.554	10	63.26	190	18.83	3	82.72	265
Juni 9	56.275	11	27.63	36	26.018	46	82.19	179	12.564	40	65.16	168	18.80	12	85.37	241
19	56.264	43	27.99	24	25.972	75	83.98	158	12.524	87	66.84	143	18.68	20	87.78	211
29	56.221	71	28.23	11	25.897	102	85.56	132	12.437	133	68.27	114	18.48	28	89.89	176
Juli 9	56.150	97	28.34	2	25.795	125	86.88	102	12.304	174	69.41	82	18.20	35	91.65	136
19	56.053	120	28.32	15	25.670	145	87.90	71	12.130	207	70.23	47	17.85	40	93.01	92
29	55.933	138	28.17	29	25.525	160	88.61	37	11.923	233	70.70	11	17.45	45	93.93	45
Aug. 8	55.795	150	27.88	42	25.365	169	88.98	1	11.690	250	70.81	26	17.00	47	94.38	3
18	55.645	153	27.46	53	25.196	172	88.99	35	11.440	255	70.55	62	16.53	47	94.35	51
28	55.492	149	26.93	62	25.024	167	88.64	71	11.185	247	69.93	96	16.06	46	93.84	99
Sept. 7	55.343	135	26.31	68	24.857	154	87.93	107	10.938	226	68.97	126	15.60	43	92.85	142
17	55.208	111	25.63	70	24.703	133	86.86	142	10.712	191	67.71	152	15.17	36	91.43	181
27	55.097	80	24.93	68	24.570	104	85.44	177	10.521	144	66.19	172	14.81	29	89.62	213
Okt. 7	55.017	38	24.25	62	24.466	66	83.67	209	10.377	84	64.47	185	14.52	19	87.49	236
17	54.979	10	23.63	50	24.400	22	81.58	239	10.293	16	62.62	188	14.33	8	85.13	251
27	54.989	62	23.13	34	24.378	27	79.19	264	10.277	59	60.74	183	14.25	4	82.62	254
Nov. 6	55.051	117	22.79	13	24.405	80	76.55	285	10.336	138	58.91	170	14.29	17	80.08	246
16	55.168	172	22.66	11	24.485	134	73.70	300	10.474	215	57.21	148	14.46	29	77.62	230
26	55.340	223	22.77	37	24.619	186	70.70	308	10.689	287	55.73	120	14.75	41	75.32	202
Dez. 6	55.563	269	23.14	63	24.805	233	67.62	307	10.976	353	54.53	85	15.16	52	73.30	166
16	55.832	306	23.77	88	25.038	274	64.55	297	11.329	407	53.68	47	15.68	61	71.64	125
26	56.138	335	24.65	112	25.312	306	61.58	277	11.736	448	53.21	7	16.29	68	70.39	78
36	56.473		25.77		25.618		58.81		12.184		53.14		16.97		69.61	
Mittl. Ort	54.557		14.95		24.183		84.71		10.293		49.12		15.30		68.50	
sec δ, tg δ	1.103		−0.466		1.125		+0.514		1.618		−1.272		2.719		−2.528	

Tag	563) δ Bootis AR.	Δ	Dekl.	Δ	564) β Librae AR.	Δ	Dekl.	Δ
1929	15ʰ 12ᵐ		+33° 34′		15ʰ 13ᵐ		−9° 7′	
Jan. 1	36.864	324	33.97	275	9.217	312	18.05	172
11	37.188	345	31.22	238	9.529	326	19.77	173
21	37.533	356	28.84	193	9.855	330	21.50	168
31	37.889	356	26.91	141	10.185	326	23.18	157
Feb. 10	38.245	346	25.50	86	10.511	315	24.75	142
20	38.591	329	24.64	29	10.826	299	26.17	123
März 2	38.920	305	24.35	26	11.125	277	27.40	101
12	39.225	274	24.61	78	11.402	254	28.41	79
22	39.499	242	25.39	125	11.656	228	29.20	56
Apr. 1	39.741	206	26.64	165	11.884	201	29.76	36
11	39.947	169	28.29	196	12.085	174	30.12	16
21	40.116	131	30.25	219	12.259	146	30.28	0
Mai 1	40.247	93	32.44	232	12.405	117	30.28	14
10*)	40.340	55	34.76	237	12.522	88	30.14	24
20	40.395	18	37.13	233	12.610	59	29.90	32
30	40.413	17	39.46	221	12.669	30	29.58	37
Juni 9	40.396	52	41.67	203	12.699	0	29.21	41
19	40.344	84	43.70	178	12.699	30	28.80	43
29	40.260	113	45.48	149	12.669	56	28.37	43
Juli 9	40.147	140	46.97	117	12.613	81	27.94	42
19	40.007	162	48.14	80	12.532	105	27.52	41
29	39.845	179	48.94	42	12.427	123	27.11	38
Aug. 8	39.666	189	49.36	2	12.304	135	26.73	35
18	39.477	194	49.38	38	12.169	141	26.38	31
28	39.283	191	49.00	79	12.028	140	26.07	24
Sept. 7	39.092	179	48.21	119	11.888	129	25.83	16
17	38.913	157	47.02	158	11.759	111	25.67	5
27	38.756	128	45.44	195	11.648	83	25.62	7
Okt. 7	38.628	90	43.49	230	11.565	48	25.69	23
17	38.538	45	41.19	261	11.517	5	25.92	41
27	38.493	6	38.58	288	11.512	42	26.33	61
Nov. 6	38.499	62	35.70	310	11.554	93	26.94	83
16	38.561	118	32.60	323	11.647	143	27.77	104
26	38.679	173	29.37	331	11.790	192	28.81	125
Dez. 6	38.852	225	26.06	328	11.982	236	30.06	144
16	39.077	270	22.78	315	12.218	272	31.50	158
26	39.347	307	19.63	293	12.490	301	33.08	168
36	39.654		16.70		12.791		34.76	
Mittl. Ort	38.423		43.58		11.007		19.55	
sec δ, tg δ	1.200		+0.664		1.013		−0.161	

Tag	565) 1 H. Ursae min. AR.	Δ	Dekl.	Δ	566) φ¹ Lupi AR.	Δ	Dekl.	Δ
1929	15ʰ 13ᵐ		+67° 36′		15ʰ 17ᵐ		−36° 0′	
Jan. 1	47.04	54	42.92	278	15.353	369	10.11	69
11	47.58	60	40.14	225	15.722	385	10.80	95
21	48.18	64	37.89	164	16.107	392	11.75	118
31	48.82	66	36.25	98	16.499	388	12.93	136
Feb. 10	49.48	65	35.27	29	16.887	376	14.29	150
20	50.13	62	34.98	39	17.263	358	15.79	160
März 2	50.75	57	35.37	103	17.621	335	17.39	165
12	51.32	52	36.40	162	17.956	308	19.04	167
22	51.84	44	38.02	213	18.264	279	20.71	167
Apr. 1	52.28	35	40.15	254	18.543	247	22.38	164
11	52.63	26	42.69	283	18.790	215	24.02	159
21	52.89	16	45.52	303	19.005	181	25.61	152
Mai 1	53.05	7	48.55	310	19.186	147	27.13	144
10*)	53.12	3	51.65	307	19.333	111	28.57	134
20	53.09	12	54.72	292	19.444	73	29.91	123
30	52.97	20	57.64	269	19.517	36	31.14	110
Juni 9	52.77	28	60.33	238	19.553	1	32.24	94
19	52.49	35	62.71	200	19.552	39	33.18	78
29	52.14	41	64.71	156	19.513	75	33.96	59
Juli 9	51.73	46	66.27	109	19.438	107	34.55	39
19	51.27	50	67.36	59	19.331	136	34.94	17
29	50.77	52	67.95	7	19.195	158	35.11	5
Aug. 8	50.25	53	68.02	47	19.037	175	35.06	28
18	49.72	53	67.55	98	18.862	182	34.78	49
28	49.19	52	66.57	149	18.680	179	34.29	70
Sept. 7	48.67	48	65.08	198	18.501	167	33.59	87
17	48.19	44	63.10	243	18.334	143	32.72	101
27	47.75	38	60.67	284	18.191	108	31.71	109
Okt. 7	47.37	31	57.83	321	18.083	64	30.62	112
17	47.06	22	54.62	351	18.019	12	29.50	109
27	46.84	12	51.11	374	18.007	45	28.41	99
Nov. 6	46.72	2	47.37	388	18.052	107	27.42	84
16	46.70	9	43.49	394	18.159	168	26.58	63
26	46.79	20	39.55	388	18.327	227	25.95	37
Dez. 6	46.99	31	35.67	373	18.554	278	25.58	8
16	47.30	41	31.94	345	18.832	323	25.50	21
26	47.71	50	28.49	307	19.155	356	25.71	50
36	48.21		25.42		19.511		26.21	
Mittl. Ort	48.99		57.78		17.621		18.46	
sec δ, tg δ	2.626		+2.428		1.236		−0.727	

*) Bei Stern 564), 565) und 566) lies Mai 11

Scheinbare Sternörter 1929

Tag	569) γ Ursae min. AR.		Dekl.		568) μ Bootis AR.		Dekl.		571) ι Draconis AR.		Dekl.		572) β Coron. bor. AR.		Dekl.	
1929	$15^h 20^m$		+72° 4′		$15^h 21^m$		+37° 37′		$15^h 23^m$		+59° 12′		$15^h 24^m$		+29° 20′	
Jan. 1	47.36	62	56.84	279	46.854	324	20.61	283	19.053	424	37.54	293	52.470	308	49.37	274
11	47.98	70	54.05	225	47.178	350	17.78	245	19.477	468	34.61	242	52.778	329	46.63	241
21	48.68	76	51.80	165	47.528	364	15.33	197	19.945	496	32.19	184	53.107	341	44.22	200
31	49.44	78	50.15	98	47.892	366	13.36	144	20.441	509	30.35	121	53.448	344	42.22	152
Feb. 10	50.22	78	49.17	30	48.258	359	11.92	86	20.950	505	29.14	54	53.792	336	40.70	100
20	51.00	76	48.87	38	48.617	344	11.06	27	21.455	486	28.60	13	54.128	322	39.70	46
März 2	51.76	70	49.25	103	48.961	320	10.79	31	21.941	453	28.73	79	54.450	300	39.24	7
12	52.46	63	50.28	162	49.281	291	11.10	86	22.394	409	29.52	138	54.750	274	39.31	59
22	53.09	54	51.90	214	49.572	257	11.96	135	22.803	356	30.90	192	55.024	245	39.90	105
Apr. 1	53.63	43	54.04	255	49.829	220	13.31	177	23.159	295	32.82	235	55.269	212	40.95	145
11	54.06	32	56.59	286	50.049	181	15.08	210	23.454	229	35.17	269	55.481	178	42.40	178
21	54.38	20	59.45	306	50.230	141	17.18	234	23.683	162	37.86	292	55.659	143	44.18	202
Mai 1	54.58	8	62.51	313	50.371	101	19.52	249	23.845	93	40.78	303	55.802	107	46.20	217
11	54.66	4	65.64	310	50.472	60	22.01	254	23.938	24	43.81	303	55.909	72	48.37	225
20	[12] 54.62	16	68.74	297	[13] 50.532	20	24.55	251	[13] 23.962	42	46.84	294	[13] 55.981	36	50.62	224
30	54.46	27	71.71	274	50.552	19	27.06	238	23.920	105	49.78	276	56.017	1	52.86	214
Juni 9	54.19	37	74.45	242	50.533	56	29.44	219	23.815	164	52.54	248	56.018	32	55.00	200
19	53.82	45	76.87	205	50.477	90	31.63	193	23.651	218	55.02	214	55.986	65	57.00	179
29	53.37	53	78.92	162	50.387	123	33.56	163	23.433	265	57.16	174	55.921	96	58.79	152
Juli 9	52.84	59	80.54	114	50.264	152	35.19	127	23.168	306	58.90	129	55.825	123	60.31	123
19	52.25	64	81.68	63	50.112	176	36.46	89	22.862	338	60.19	82	55.702	146	61.54	90
29	51.61	67	82.31	11	49.936	195	37.35	49	22.524	363	61.01	32	55.556	166	62.44	55
Aug. 8	50.94	68	82.42	41	49.741	208	37.84	7	22.161	377	61.33	19	55.390	179	62.99	18
18	50.26	69	82.01	94	49.533	213	37.91	36	21.784	381	61.14	70	55.211	186	63.17	20
28	49.57	67	81.07	146	49.320	211	37.55	79	21.403	373	60.44	121	55.025	184	62.97	59
Sept. 7	48.90	64	79.61	194	49.109	199	36.76	122	21.030	355	59.23	170	54.841	175	62.38	96
17	48.26	58	77.67	239	48.910	180	35.54	163	20.675	323	57.53	216	54.666	157	61.42	134
27	47.68	51	75.28	282	48.730	149	33.91	202	20.352	280	55.37	259	54.509	130	60.08	171
Okt. 7	47.17	42	72.46	317	48.581	111	31.89	239	20.072	225	52.78	298	54.379	94	58.37	205
17	46.75	32	69.29	348	48.470	65	29.50	271	19.847	160	49.80	330	54.285	51	56.32	237
27	46.43	20	65.81	372	48.405	13	26.79	299	19.687	85	46.50	357	54.234	3	53.95	265
Nov. 6	46.23	7	62.09	386	48.392	45	23.80	322	19.602	5	42.93	376	54.231	51	51.30	288
16	46.16	6	58.23	392	48.437	103	20.58	336	19.597	81	39.17	386	54.282	106	48.42	305
26	46.22	20	54.31	387	48.540	161	17.22	343	19.678	165	35.31	385	54.388	159	45.37	314
Dez. 6	46.42	33	50.44	372	48.701	216	13.79	339	19.843	247	31.46	374	54.547	209	42.23	316
16	46.75	45	46.72	345	48.917	265	10.40	326	20.090	323	27.72	352	54.756	254	39.07	307
26	47.20	56	43.27	307	49.182	306	7.14	303	20.413	389	24.20	318	55.010	290	36.00	289
36	47.76		40.20		49.488		4.11		20.802		21.02		55.300		33.11	
Mittl. Ort	49.63		71.85		48.467		31.05		20.868		51.37		54.095		58.07	
sec δ, tg δ	3.251		+3.094		1.263		+0.771		1.954		+1.678		1.147		+0.562	

Tag	573) ν¹ Bootis AR.		573) Dekl.		575) γ Lupi AR.		575) Dekl.		577) γ Librae AR.		577) Dekl.		578) α Coron. bor. AR.		578) Dekl.	
1929	$15^{h}\,28^{m}$		$+41^{\circ}\,4'$		$15^{h}\,30^{m}$		$-40^{\circ}\,55'$		$15^{h}\,31^{m}$		$-14^{\circ}\,33'$		$15^{h}\,31^{m}$		$+26^{\circ}\,56'$	
Jan. 1	21.055	329	16.20	291	21.562	382	37.77	36	31.131	310	11.95	143	39.215	300	61.21	272
11	21.384	356	13.29	250	21.944	403	38.13	66	31.441	326	13.38	150	39.515	323	58.49	242
21	21.740	373	10.79	202	22.347	413	38.79	92	31.767	334	14.88	151	39.838	335	56.07	203
31	22.113	378	8.77	147	22.760	412	39.71	116	32.101	333	16.39	146	40.173	338	54.04	158
Feb. 10	22.491	373	7.30	87	23.172	402	40.87	134	32.434	325	17.85	137	40.511	332	52.46	108
20	22.864	358	6.43	26	23.574	387	42.21	150	32.759	311	19.22	124	40.843	319	51.38	55
März 2	23.222	336	6.17	34	23.961	365	43.71	162	33.070	293	20.46	108	41.162	299	50.83	3
12	23.558	306	6.51	92	24.326	338	45.33	169	33.363	272	21.54	91	41.461	275	50.80	47
22	23.864	272	7.43	143	24.664	309	47.02	173	33.635	247	22.45	73	41.736	247	51.27	94
Apr. 1	24.136	234	8.86	185	24.973	278	48.75	175	33.882	222	23.18	56	41.983	217	52.21	133
11	24.370	192	10.71	220	25.251	244	50.50	174	34.104	196	23.74	40	42.200	184	53.54	167
21	24.562	150	12.91	245	25.495	208	52.24	172	34.300	169	24.14	25	42.384	150	55.21	191
Mai 1	24.712	107	15.36	261	25.703	171	53.96	166	34.469	139	24.39	14	42.534	116	57.12	207
11	24.819	64	17.97	266	25.874	132	55.62	158	34.608	110	24.53	3	42.650	82	59.19	217
20	^{14}24.883	21	20.63	263	^{15}26.006	92	57.20	149	^{15}34.718	80	24.56	5	^{15}42.732	46	61.36	216
30	24.904	20	23.26	250	26.098	51	58.69	137	34.798	48	24.51	10	42.778	12	63.52	209
Juni 9	24.884	61	25.76	231	26.149	8	60.06	122	34.846	17	24.41	16	42.790	22	65.61	196
19	24.823	98	28.07	204	26.157	33	61.28	105	34.863	15	24.25	20	42.768	54	67.57	177
29	24.725	132	30.11	172	26.124	73	62.33	85	34.848	45	24.05	22	42.714	85	69.34	152
Juli 9	24.593	163	31.83	135	26.051	111	63.18	63	34.803	75	23.83	25	42.629	114	70.86	125
19	24.430	190	33.18	96	25.940	143	63.81	39	34.728	100	23.58	28	42.515	138	72.11	93
29	24.240	210	34.14	54	25.797	171	64.20	12	34.628	122	23.30	30	42.377	158	73.04	60
Aug. 8	24.030	225	34.68	9	25.626	190	64.32	14	34.506	137	23.00	32	42.219	172	73.64	25
18	23.805	231	34.77	35	25.436	200	64.18	40	34.369	147	22.68	32	42.047	180	73.89	12
28	23.574	229	34.42	80	25.236	200	63.78	65	34.222	148	22.36	31	41.867	181	73.77	48
Sept. 7	23.345	219	33.62	125	25.036	189	63.13	88	34.074	141	22.05	28	41.686	172	73.29	86
17	23.126	198	32.37	167	24.847	165	62.25	107	33.933	124	21.77	24	41.514	156	72.43	122
27	22.928	168	30.70	208	24.682	131	61.18	121	33.809	98	21.53	15	41.358	129	71.21	158
Okt. 7	22.760	130	28.62	246	24.551	85	59.97	130	33.711	62	21.38	5	41.229	96	69.63	192
17	22.630	82	26.16	280	24.466	31	58.67	132	33.649	21	21.33	9	41.133	53	67.71	224
27	22.548	28	23.36	309	24.435	30	57.35	126	33.628	27	21.42	25	41.080	6	65.47	252
Nov. 6	22.520	31	20.27	331	24.465	96	56.09	115	33.655	78	21.67	45	41.074	46	62.95	276
16	22.551	92	16.96	347	24.561	160	54.94	96	33.733	130	22.12	66	41.120	100	60.19	294
26	22.643	153	13.49	352	24.721	223	53.98	73	33.863	181	22.78	86	41.220	152	57.25	305
Dez. 6	22.796	211	9.97	349	24.944	280	53.25	45	34.044	226	23.64	105	41.372	203	54.20	308
16	23.007	262	6.48	335	25.224	329	52.80	15	34.270	266	24.69	123	41.575	247	51.12	301
26	23.269	307	3.13	311	25.553	368	52.65	16	34.536	297	25.92	137	41.822	283	48.11	286
36	23.576		0.02		25.921		52.81		34.833		27.29		42.105		45.25	
Mittl. Ort	22.717		27.25		24.050		46.34		33.069		14.12		40.875		69.40	
sec δ, tg δ	1.326		+0.872		1.324		−0.867		1.033		−0.260		1.122		+0.508	

Tag	582) α Serpentis AR.	Δ	Dekl.	Δ	583) β Serpentis AR.	Δ	Dekl.	Δ	584) κ Serpentis AR.	Δ	Dekl.	Δ	585) μ Serpentis AR.	Δ	Dekl.	Δ
1929	15h 40m		+6° 38′		15h 42m		+15° 38′		15h 45m		+18° 21′		15h 45m		−3° 12′	
Jan. 1	44.376	287	48.78	219	52.860	286	28.61	247	30.847	285	28.49	255	52.878	289	52.34	182
11	44.663	306	46.59	205	53.146	306	26.14	227	31.132	306	25.94	232	53.167	307	54.16	178
21	44.969	317	44.54	185	53.452	318	23.87	197	31.438	319	23.62	202	53.474	318	55.94	168
31	45.286	318	42.69	159	53.770	322	21.90	163	31.757	323	21.60	165	53.792	320	57.62	151
Feb. 10	45.604	313	41.10	127	54.092	317	20.27	123	32.080	319	19.95	122	54.112	315	59.13	130
20	45.917	301	39.83	93	54.409	306	19.04	79	32.399	309	18.73	76	54.427	303	60.43	105
März 2	46.218	285	38.90	56	54.715	289	18.25	35	32.708	292	17.97	30	54.730	289	61.48	79
12	46.503	264	38.34	19	55.004	269	17.90	8	33.000	273	17.67	16	55.019	269	62.27	50
22	46.767	242	38.15	15	55.273	245	17.98	49	33.273	248	17.83	58	55.288	247	62.77	23
Apr. 1	47.009	216	38.30	46	55.518	219	18.47	85	33.521	221	18.41	96	55.535	224	63.00	2
11	47.225	190	38.76	73	55.737	191	19.32	116	33.742	193	19.37	128	55.759	198	62.98	24
21	47.415	163	39.49	94	55.928	162	20.48	139	33.935	164	20.65	153	55.957	172	62.74	42
Mai 1	47.578	134	40.43	110	56.090	131	21.87	157	34.099	132	22.18	170	56.129	145	62.32	56
11	18 47.712	105	41.53	121	18 56.221	100	23.44	168	19 34.231	101	23.88	181	19 56.274	115	61.76	67
20	47.817	74	42.74	125	56.321	69	25.12	171	34.332	69	25.69	184	56.389	86	61.09	73
30	47.891	43	43.99	126	56.390	37	26.83	168	34.401	35	27.53	182	56.475	55	60.36	76
Juni 9	47.934	12	45.25	122	56.427	4	28.51	161	34.436	3	29.35	172	56.530	23	59.60	75
19	47.946	18	46.47	113	56.431	27	30.12	148	34.439	29	31.07	159	56.553	8	58.85	73
29	47.928	49	47.60	102	56.404	58	31.60	131	34.410	61	32.66	140	56.545	39	58.12	68
Juli 9	47.879	76	48.62	89	56.346	87	32.91	111	34.349	90	34.06	118	56.506	68	57.44	61
19	47.803	102	49.51	73	56.259	112	34.02	89	34.259	116	35.24	94	56.438	94	56.83	54
29	47.701	123	50.24	55	56.147	133	34.91	63	34.143	137	36.18	66	56.344	117	56.29	45
Aug. 8	47.578	139	50.79	37	56.014	150	35.54	37	34.006	155	36.84	38	56.227	134	55.84	35
18	47.439	149	51.16	17	55.864	160	35.91	9	33.851	165	37.22	8	56.093	146	55.49	24
28	47.290	152	51.33	5	55.704	162	36.00	20	33.686	167	37.30	23	55.947	149	55.25	12
Sept. 7	47.138	146	51.28	27	55.542	157	35.80	49	33.519	162	37.07	54	55.798	144	55.13	1
17	46.992	131	51.01	49	55.385	143	35.31	79	33.357	149	36.53	87	55.654	131	55.14	16
27	46.861	109	50.52	73	55.242	119	34.52	109	33.208	126	35.66	118	55.523	107	55.30	33
Okt. 7	46.752	77	49.79	98	55.123	88	33.43	138	33.082	93	34.48	149	55.416	76	55.63	50
17	46.675	38	48.81	123	55.035	48	32.05	167	32.989	55	32.99	178	55.340	37	56.13	70
27	46.637	7	47.58	147	54.987	4	30.38	193	32.934	10	31.21	206	55.303	8	56.83	90
Nov. 6	46.644	55	46.11	169	54.983	45	28.45	218	32.924	40	29.15	231	55.311	57	57.73	111
16	46.699	106	44.42	190	55.028	96	26.27	238	32.964	91	26.84	251	55.368	107	58.84	131
26	46.805	154	42.52	206	55.124	147	23.89	252	33.055	142	24.33	265	55.475	156	60.15	149
Dez. 6	46.959	200	40.46	218	55.271	194	21.37	261	33.197	190	21.68	273	55.631	202	61.64	165
16	47.159	240	38.28	224	55.465	235	18.76	262	33.387	232	18.95	273	55.833	242	63.29	175
26	47.399	273	36.04	222	55.700	270	16.14	255	33.619	268	16.22	264	56.075	275	65.04	181
36	47.672		33.82		55.970		13.59		33.887		13.58		56.350		66.85	
Mittl. Ort	46.152		52.32		54.600		34.33		32.588		34.86		54.751		51.07	
sec δ, tg δ	1.007		+0.117		1.038		+0.280		1.054		+0.332		1.002		−0.056	

Tag	590) ζ Ursae min.				588) ε Serpentis				589) β Triang. austr.				593) ε Coron. bor.			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
1929	15h 46m		+78° 0′		15h 47m		+4° 41′		15h 48m		−63° 12′		15h 54m		+27° 4′	
Jan. 1	29.85	78	34.88	294	14.687	284	21.72	212	48.18	57	37.34	75	37.054	282	48.41	279
11	30.63	91	31.94	244	14.971	303	19.60	200	48.75	60	36.59	32	37.336	309	45.62	251
21	31.54	102	29.50	187	15.274	314	17.60	181	49.35	63	36.27	11	37.645	325	43.11	214
31	32.56	108	27.63	123	15.588	318	15.79	158	49.98	64	36.38	53	37.970	333	40.97	170
Feb. 10	33.64	111	26.40	56	15.906	313	14.21	128	50.62	64	36.91	93	38.303	331	39.27	120
20	34.75	110	25.84	12	16.219	302	12.93	95	51.26	62	37.84	129	38.634	323	38.07	68
März 2	35.85	104	25.96	78	16.521	287	11.98	60	51.88	60	39.13	161	38.957	308	37.39	15
12	36.89	96	26.74	139	16.808	268	11.38	26	52.48	56	40.74	190	39.265	287	37.24	37
22	37.85	84	28.13	194	17.076	246	11.12	8	53.04	51	42.64	214	39.552	263	37.61	85
Apr. 1	38.69	69	30.07	240	17.322	221	11.20	38	53.55	47	44.78	233	39.815	234	38.46	127
11	39.38	53	32.47	274	17.543	196	11.58	64	54.02	41	47.11	248	40.049	205	39.73	163
21	39.91	36	35.21	299	17.739	170	12.22	85	54.43	35	49.59	260	40.254	172	41.36	191
Mai 1	40.27	18	38.20	312	17.909	141	13.07	100	54.78	28	52.19	264	40.426	139	43.27	211
11	40.45	1	41.32	313	18.050	112	14.07	112	55.06	22	54.83	265	40.565	104	45.38	222
20*)	[19] 40.44	19	44.45	305	[19] 18.162	81	15.19	117	[20] 55.28	15	57.48	260	[21] 40.669	69	47.60	224
30	40.25	36	47.50	286	18.243	51	16.36	118	55.43	7	60.08	250	40.738	33	49.84	220
Juni 9	39.89	52	50.36	260	18.294	19	17.54	115	55.50	1	62.58	234	40.771	4	52.04	209
19	39.37	66	52.96	225	18.313	12	18.69	108	55.49	8	64.92	213	40.767	38	54.13	191
29	38.71	78	55.21	185	18.301	43	19.77	97	55.41	15	67.05	185	40.729	72	56.04	169
Juli 9	37.93	90	57.06	141	18.258	71	20.74	86	55.26	22	68.90	154	40.657	103	57.73	142
19	37.03	98	58.47	91	18.187	98	21.60	71	55.04	28	70.44	118	40.554	132	59.15	111
29	36.05	104	59.38	41	18.089	121	22.31	55	54.76	32	71.62	77	40.422	155	60.26	78
Aug. 8	35.01	108	59.79	11	17.968	137	22.86	38	54.44	36	72.39	34	40.267	174	61.04	43
18	33.93	109	59.68	63	17.831	148	23.24	20	54.08	38	72.73	10	40.093	185	61.47	6
28	32.84	108	59.05	115	17.683	153	23.44	1	53.70	38	72.63	55	39.908	189	61.53	31
Sept. 7	31.76	104	57.90	164	17.530	147	23.45	20	53.32	37	72.08	97	39.719	185	61.22	68
17	30.72	98	56.26	212	17.383	134	23.25	42	52.95	33	71.11	137	39.534	172	60.54	106
27	29.74	88	54.14	256	17.249	112	22.83	63	52.62	28	69.74	170	39.362	149	59.48	143
Okt. 7	28.86	77	51.58	293	17.137	80	22.20	87	52.34	20	68.04	199	39.213	117	58.05	179
17	28.09	63	48.65	327	17.057	43	21.33	111	52.14	12	66.05	217	39.096	78	56.26	212
27	27.46	47	45.38	355	17.014	2	20.22	134	52.02	3	63.88	227	39.018	31	54.14	242
Nov. 6	26.99	29	41.83	374	17.016	51	18.88	156	51.99	8	61.61	228	38.987	19	51.72	268
16	26.70	10	38.09	383	17.067	100	17.32	177	52.07	18	59.33	219	39.006	73	49.04	288
26	26.60	10	34.26	384	17.167	149	15.55	194	52.25	28	57.14	200	39.079	127	46.16	302
Dez. 6	26.70	30	30.42	374	17.316	196	13.61	206	52.53	38	55.14	173	39.206	177	43.14	307
16	27.00	49	26.68	352	17.512	235	11.55	214	52.91	46	53.41	140	39.383	225	40.07	304
26	27.49	68	23.16	318	17.747	269	9.41	213	53.37	54	52.01	101	39.608	263	37.03	291
36	28.17		19.98		18.016		7.28		53.91		51.00		39.871		34.12	
Mittl. Ort	33.29		49.41		16.503		24.95		52.19		48.30		38.821		56.67	
sec δ, tg δ	4.815		+4.710		1.003		+0.082		2.219		−1.981		1.123		+0.511	

*) Bei Stern 593) lies Mai 21

Tag	594) δ Scorpii AR.	Diff.	594) δ Scorpii Dekl.	Diff.	598) ϑ Draconis AR.	Diff.	598) ϑ Draconis Dekl.	Diff.	597) β Scorpii AR.	Diff.	597) β Scorpii Dekl.	Diff.	603) δ Ophiuchi AR.	Diff.	603) δ Ophiuchi Dekl.	Diff.
1929	15h 56m		−22° 25′		16h 0m		+58° 44′		16h 1m		−19° 36′		16h 10m		−3° 30′	
Jan. 1	5.713	308	13.24	96	31.268	365	63.08	320	16.149	300	43.21	105	35.396	273	48.29	174
11	6.021	330	14.20	108	31.633	419	59.88	276	16.449	321	44.26	116	35.669	295	50.03	170
21	6.351	342	15.28	117	32.052	459	57.12	222	16.770	334	45.42	121	35.964	309	51.73	161
31	6.693	345	16.45	121	32.511	483	54.90	163	17.104	339	46.63	122	36.273	316	53.34	145
Feb. 10	7.038	341	17.66	121	32.994	493	53.27	98	17.443	335	47.85	119	36.589	315	54.79	125
20	7.379	332	18.87	116	33.487	488	52.29	30	17.778	327	49.04	111	36.904	307	56.04	100
März 2	7.711	317	20.03	109	33.975	467	51.99	38	18.105	313	50.15	102	37.211	297	57.04	73
12	8.028	298	21.12	101	34.442	436	52.37	101	18.418	296	51.17	90	37.508	281	57.77	46
22	8.326	277	22.13	90	34.878	393	53.38	159	18.714	275	52.07	77	37.789	262	58.23	19
Apr. 1	8.603	254	23.03	79	35.271	342	54.97	211	18.989	253	52.84	65	38.051	242	58.42	6
11	8.857	228	23.82	69	35.613	284	57.08	251	19.242	229	53.49	53	38.293	219	58.36	28
21	9.085	202	24.51	60	35.897	221	59.59	282	19.471	202	54.02	42	38.512	194	58.08	47
Mai 1	9.287	172	25.11	51	36.118	154	62.41	302	19.673	174	54.44	33	38.706	167	57.61	61
11	9.459	142	25.62	44	36.272	87	65.43	311	19.847	144	54.77	25	38.873	139	57.00	71
21	9.601	109	26.06	37	36.359	19	68.54	309	19.991	113	55.02	19	39.012	109	56.29	78
30	9.710	75	26.43	31	36.378	47	71.63	298	20.104	79	55.21	13	39.121	77	55.51	80
Juni 9	9.785	40	26.74	25	36.331	111	74.61	279	20.183	44	55.34	9	39.198	45	54.71	80
19	9.825	5	26.99	19	36.220	172	77.40	250	20.227	9	55.43	5	39.243	11	53.91	76
29	9.830	30	27.18	12	36.048	226	79.90	215	20.236	26	55.48	1	39.254	22	53.15	71
Juli 9	9.800	64	27.30	6	35.822	277	82.05	176	20.210	59	55.49	4	39.232	54	52.44	64
19	9.736	96	27.36	2	35.545	318	83.81	131	20.151	90	55.45	9	39.178	85	51.80	56
29	9.640	121	27.34	9	35.227	353	85.12	83	20.061	118	55.36	14	39.093	110	51.24	46
Aug. 8	9.519	143	27.25	18	34.874	378	85.95	33	19.943	139	55.22	19	38.983	131	50.78	36
18	9.376	157	27.07	25	34.496	392	86.28	18	19.804	153	55.03	24	38.852	147	50.42	25
28	9.219	161	26.82	33	34.104	395	86.10	69	19.651	159	54.79	28	38.705	154	50.17	14
Sept. 7	9.058	158	26.49	38	33.709	386	85.41	120	19.492	157	54.51	32	38.551	152	50.03	0
17	8.900	144	26.11	41	33.323	365	84.21	169	19.335	143	54.19	32	38.399	142	50.03	14
27	8.756	120	25.70	42	32.958	330	82.52	216	19.192	121	53.87	30	38.257	123	50.17	29
Okt. 7	8.636	86	25.28	40	32.628	283	80.36	259	19.071	89	53.57	26	38.134	95	50.46	47
17	8.550	44	24.88	32	32.345	224	77.77	298	18.982	47	53.31	18	38.039	57	50.93	65
27	8.506	4	24.56	22	32.121	156	74.79	331	18.935	1	53.13	6	37.982	15	51.58	83
Nov. 6	8.510	58	24.34	9	31.965	79	71.48	357	18.934	51	53.07	9	37.967	34	52.41	103
16	8.568	112	24.25	10	31.886	4	67.91	375	18.985	104	53.16	25	38.001	83	53.44	123
26	8.680	165	24.35	29	31.890	90	64.16	383	19.089	157	53.41	44	38.084	133	54.67	140
Dez. 6	8.845	214	24.64	48	31.980	173	60.33	380	19.246	206	53.85	64	38.217	180	56.07	155
16	9.059	259	25.12	68	32.153	254	56.53	366	19.452	249	54.49	80	38.397	221	57.62	167
26	9.318	294	25.80	85	32.407	325	52.87	340	19.701	285	55.29	97	38.618	257	59.29	172
36	9.612		26.65		32.732		49.47		19.986		56.26		38.875		61.01	
Mittl. Ort	7.875		16.05		33.377		75.98		18.284		45.11		37.365		46.23	
sec δ, tg δ	1.082		−0.413		1.928		+1.648		1.062		−0.356		1.002		−0.061	

Tag	606) 19 Ursae min. AR.		Dekl.		604) γ^2 Normae AR.		Dekl.		605) ε Ophiuchi AR.		Dekl.		608) τ Herculis AR.		Dekl.	
1929	$16^h 12^m$		$+76° 2'$		$16^h 14^m$		$-49° 58'$		$16^h 14^m$		$-4° 31'$		$16^h 17^m$		$+46° 28'$	
	s		"		s		"		s		"		s		"	
Jan. 1	45.91	59	71.68	318	27.935	398	52.21	49	31.742	271	16.91	168	34.352	292	42.73	323
11	46.50	73	68.50	273	28.333	434	51.72	17	32.013	294	18.59	165	34.644	333	39.50	286
21	47.23	84	65.77	220	28.767	457	51.55	$\overline{15}$	32.307	309	20.24	156	34.977	363	36.64	240
31	48.07	91	63.57	160	29.224	468	51.70	44	32.616	316	21.80	142	35.340	384	34.24	187
Feb. 10	48.98	95	61.97	93	29.692	469	52.14	73	32.932	315	23.22	122	35.724	392	32.37	127
20	49.93	96	61.04	26	30.161	462	52.87	97	33.247	309	24.44	99	36.116	389	31.10	63
März 2	50.89	93	60.78	$\overline{42}$	30.623	448	53.84	119	33.556	299	25.43	74	36.505	378	30.47	$\overline{1}$
12	51.82	87	61.20	106	31.071	428	55.03	138	33.855	283	26.17	47	36.883	358	30.48	64
22	52.69	79	62.26	165	31.499	401	56.41	155	34.138	266	26.64	21	37.241	330	31.12	121
Apr. 1	53.48	68	63.91	215	31.900	371	57.96	167	34.404	245	26.85	$\overline{4}$	37.571	296	32.33	173
11	54.16	56	66.06	258	32.271	338	59.63	177	34.649	223	26.81	25	37.867	256	34.06	217
21	54.72	41	68.64	288	32.609	299	61.40	184	34.872	198	26.56	43	38.123	214	36.23	251
Mai 1	55.13	25	71.52	307	32.908	258	63.24	190	35.070	172	26.13	57	38.337	168	38.74	274
11	55.38	10	74.59	317	33.166	212	65.14	191	35.242	144	25.56	67	38.505	120	41.48	289
21	55.48	$\overline{5}$	77.76	316	33.378	164	67.05	189	35.386	113	24.89	74	38.625	70	44.37	293
	26				26				26				27			
30	55.43	21	80.92	303	33.542	112	68.94	184	35.499	82	24.15	76	38.695	22	47.30	288
Juni 9	55.22	35	83.95	282	33.654	59	70.78	174	35.581	49	23.39	76	38.717	$\overline{28}$	50.18	273
19	54.87	48	86.77	254	33.713	5	72.52	161	35.630	15	22.63	73	38.689	76	52.91	252
29	54.39	61	89.31	218	33.718	$\overline{49}$	74.13	144	35.645	$\overline{19}$	21.90	68	38.613	121	55.43	223
Juli 9	53.78	71	91.49	178	33.669	101	75.57	123	35.626	51	21.22	61	38.492	162	57.66	189
19	53.07	80	93.27	131	33.568	148	76.80	97	35.575	82	20.61	54	38.330	201	59.55	150
29	52.27	87	94.58	83	33.420	189	77.77	68	35.493	108	20.07	45	38.129	232	61.05	107
Aug. 8	51.40	92	95.41	32	33.231	221	78.45	38	35.385	131	19.62	36	37.897	257	62.12	62
18	50.48	94	95.73	$\overline{19}$	33.010	245	78.83	4	35.254	145	19.26	25	37.640	273	62.74	16
28	49.54	95	95.54	72	32.765	254	78.87	$\overline{28}$	35.109	155	19.01	15	37.367	281	62.90	$\overline{33}$
Sept. 7	48.59	94	94.82	123	32.511	251	78.59	62	34.954	153	18.86	3	37.086	280	62.57	81
17	47.65	90	93.59	173	32.260	235	77.97	92	34.801	144	18.83	$\overline{11}$	36.806	266	61.76	129
27	46.75	83	91.86	219	32.025	203	77.05	119	34.657	124	18.94	24	36.540	243	60.47	174
Okt. 7	45.92	74	89.67	262	31.822	157	75.86	141	34.533	97	19.18	41	36.297	208	58.73	218
17	45.18	63	87.05	301	31.665	101	74.45	156	34.436	60	19.59	59	36.089	164	56.55	259
27	44.55	49	84.04	333	31.564	35	72.89	165	34.376	17	20.18	77	35.925	112	53.96	294
Nov. 6	44.06	35	80.71	359	31.529	$\overline{38}$	71.24	165	34.359	$\overline{30}$	20.95	96	35.813	51	51.02	323
16	43.71	18	77.12	375	31.567	114	69.59	159	34.389	81	21.91	115	35.762	$\overline{13}$	47.79	346
26	43.53	1	73.37	383	31.681	189	68.00	144	34.470	130	23.06	132	35.775	79	44.33	359
Dez. 6	43.52	$\overline{16}$	69.54	379	31.870	258	66.56	124	34.600	177	24.38	148	35.854	144	40.74	364
16	43.68	34	65.75	365	32.128	322	65.32	98	34.777	220	25.86	159	35.998	207	37.10	356
26	44.02	50	62.10	339	32.450	376	64.34	69	34.997	255	27.45	166	36.205	261	33.54	338
36	44.52		58.71		32.826		63.65		35.252		29.11		36.466		30.16	
Mittl. Ort	49.44		85.21		31.046		59.00		33.735		14.93		36.335		53.84	
sec δ, tg δ	4.150		+4.028		1.555		−1.191		1.003		−0.079		1.452		+1.053	

Tag	609) γ Herculis AR.		Dekl.		611) γ Apodis AR.		Dekl.		615) η Draconis AR.		Dekl.		616) α Scorpii AR.		Dekl.	
1929	16h 18m		+19° 18′		16h 22m		−78° 44′		16h 22m		+61° 40′		16h 25m		−26° 16′	
Jan. 1	45.333	260	60.59	260	21.31	108	18.67	173	59.13	35	16.07	334	0.673	297	31.62	58
11	45.593	286	57.99	240	22.39	120	16.94	129	59.48	42	12.73	294	0.970	323	32.20	72
21	45.879	304	55.59	211	23.59	130	15.65	81	59.90	46	9.79	244	1.293	340	32.92	84
31	46.183	315	53.48	175	24.89	136	14.84	32	60.36	50	7.35	186	1.633	349	33.76	91
Feb. 10	46.498	318	51.73	133	26.25	139	14.52	16	60.86	53	5.49	122	1.982	351	34.67	94
20	46.816	313	50.40	87	27.64	138	14.68	64	61.39	52	4.27	54	2.333	345	35.61	94
März 2	47.129	303	49.53	39	29.02	136	15.32	109	61.91	51	3.73	15	2.678	336	36.55	92
12	47.432	288	49.14	8	30.38	131	16.41	151	62.42	49	3.88	80	3.014	322	37.47	88
22	47.720	268	49.22	54	31.69	123	17.92	189	62.91	45	4.68	141	3.336	304	38.35	82
Apr. 1	47.988	246	49.76	94	32.92	112	19.81	223	63.36	40	6.09	196	3.640	283	39.17	76
11	48.234	221	50.70	129	34.04	101	22.04	251	63.76	33	8.05	240	3.923	261	39.93	70
21	48.455	193	51.99	158	35.05	88	24.55	275	64.09	27	10.45	276	4.184	236	40.63	65
Mai 1	48.648	164	53.57	178	35.93	72	27.30	293	64.36	20	13.21	301	4.420	207	41.28	60
11	48.812	132	55.35	193	36.65	56	30.23	305	64.56	13	16.22	314	4.627	176	41.88	55
21	48.944	99	57.28	199	37.21	39	33.28	309	64.69	5	19.36	317	4.803	143	42.43	52
30	49.043	65	59.27	198	37.60	21	36.37	308	64.74	2	22.53	311	4.946	107	42.95	48
Juni 9	49.108	30	61.25	191	37.81	2	39.45	299	64.72	10	25.64	294	5.053	70	43.43	44
19	49.138	6	63.16	179	37.83	16	42.44	283	64.62	17	28.58	270	5.123	31	43.87	39
29	49.132	41	64.95	162	37.67	34	45.27	260	64.45	23	31.28	238	5.154	9	44.26	34
Juli 9	49.091	73	66.57	140	37.33	51	47.87	228	64.22	29	33.66	200	5.145	46	44.60	28
19	49.018	105	67.97	116	36.82	66	50.15	191	63.93	34	35.66	157	5.099	83	44.88	19
29	48.913	131	69.13	88	36.16	78	52.06	147	63.59	39	37.23	111	5.016	114	45.07	10
Aug. 8	48.782	154	70.01	59	35.38	88	53.53	99	63.20	42	38.34	62	4.902	141	45.17	1
18	48.628	169	70.60	28	34.50	94	54.52	48	62.78	44	38.96	10	4.761	161	45.18	11
28	48.459	177	70.88	3	33.56	98	55.00	7	62.34	45	39.06	42	4.600	171	45.07	21
Sept. 7	48.282	177	70.85	37	32.58	97	54.93	62	61.89	44	38.64	93	4.429	172	44.86	31
17	48.105	168	70.48	70	31.61	90	54.31	114	61.45	43	37.71	144	4.257	162	44.55	39
27	47.937	149	69.78	102	30.71	81	53.17	163	61.02	40	36.27	193	4.095	142	44.16	45
Okt. 7	47.788	122	68.76	135	29.90	68	51.54	205	60.62	35	34.34	239	3.953	111	43.71	48
17	47.666	86	67.41	166	29.22	50	49.49	241	60.27	29	31.95	280	3.842	72	43.23	48
27	47.580	44	65.75	196	28.72	31	47.08	267	59.98	23	29.15	317	3.770	23	42.75	42
Nov. 6	47.536	5	63.79	222	28.41	8	44.41	282	59.75	14	25.98	347	3.747	29	42.33	34
16	47.541	55	61.57	245	28.33	15	41.59	285	59.61	5	22.51	369	3.776	84	41.99	21
26	47.596	106	59.12	261	28.48	37	38.74	279	59.56	3	18.82	381	3.860	140	41.78	6
Dez. 6	47.702	156	56.51	272	28.85	60	35.95	262	59.59	13	15.01	383	4.000	192	41.72	12
16	47.858	201	53.79	274	29.45	81	33.33	234	59.72	22	11.18	374	4.192	239	41.84	30
26	48.059	240	51.05	267	30.26	98	30.99	199	59.94	30	7.44	352	4.431	279	42.14	47
36	48.299		48.38		31.24		29.00		60.24		3.92		4.710		42.61	
Mittl. Ort	47.207		67.44		30.23		27.90		61.52		28.50		3.017		33.51	
sec δ, tg δ	1.060		+0.351		5.122		−5.023		2.108		+1.855		1.115		−0.494	

Tag	618) β Herculis AR.	Δ	Dekl.	Δ	619) A Draconis AR.	Δ	Dekl.	Δ	621) σ Herculis AR.	Δ	Dekl.	Δ	622) ζ Ophiuchi AR.	Δ	Dekl.	Δ
1929	16h 27m		+21° 38′		16h 28m		+68° 54′		16h 31m		+42° 34′		16h 33m		−10° 25′	
Jan. 1	8.109	252	28.09	269	3.92	41	65.79	335	46.803	266	46.92	322	12.706	264	30.40	133
11	8.361	281	25.40	248	4.33	50	62.44	295	47.069	307	43.70	290	12.970	288	31.73	135
21	8.642	302	22.92	218	4.83	57	59.49	244	47.376	338	40.80	249	13.258	307	33.08	131
31	8.944	314	20.74	180	5.40	62	57.05	186	47.714	358	38.31	198	13.565	316	34.39	123
Feb. 10	9.258	319	18.94	136	6.02	65	55.19	121	48.072	369	36.33	140	13.881	319	35.62	110
20	9.577	316	17.58	89	6.67	67	53.98	53	48.441	370	34.93	80	14.200	316	36.72	93
März 2	9.893	307	16.69	39	7.34	66	53.45	15	48.811	362	34.13	17	14.516	307	37.65	74
12	10.200	293	16.30	10	8.00	62	53.60	82	49.173	346	33.96	45	14.823	296	38.39	54
22	10.493	275	16.40	57	8.62	57	54.42	143	49.519	323	34.41	103	15.119	280	38.93	32
Apr. 1	10.768	253	16.97	99	9.19	51	55.85	198	49.842	294	35.44	155	15.399	263	39.25	12
11	11.021	228	17.96	137	9.70	42	57.83	243	50.136	261	36.99	200	15.662	242	39.37	4
21	11.249	201	19.33	167	10.12	34	60.26	279	50.397	223	38.99	237	15.904	219	39.33	19
Mai 1	11.450	171	21.00	189	10.46	24	63.05	304	50.620	182	41.36	262	16.123	194	39.14	31
11	11.621	139	22.89	204	10.70	14	66.09	318	50.802	138	43.98	280	16.317	166	38.83	40
21	11.760	105	24.93	211	10.84	4	69.27	321	50.940	93	46.78	286	16.483	136	38.43	45
30*)	11.865	70	27.04	211	10.88	6	72.48	314	51.033	46	49.64	284	16.619	103	37.98	48
Juni 9	11.935	34	29.15	205	10.82	16	75.62	298	51.079	1	52.48	274	16.722	69	37.50	48
19	11.969	3	31.20	191	10.66	25	78.60	274	51.078	46	55.22	255	16.791	34	37.02	46
29	11.966	38	33.11	174	10.41	34	81.34	241	51.032	91	57.77	229	16.825	3	36.56	44
Juli 9	11.928	73	34.85	151	10.07	42	83.75	202	50.941	132	60.06	198	16.822	37	36.12	40
19	11.855	105	36.36	126	9.65	48	85.77	160	50.809	171	62.04	162	16.785	71	35.72	36
29	11.750	133	37.62	97	9.17	54	87.37	113	50.638	204	63.66	122	16.714	101	35.36	32
Aug. 8	11.617	157	38.59	66	8.63	58	88.50	63	50.434	230	64.88	79	16.613	126	35.04	26
18	11.460	174	39.25	33	8.05	61	89.13	12	50.204	250	65.67	34	16.487	145	34.78	22
28	11.286	183	39.58	0	7.44	62	89.25	41	49.954	260	66.01	12	16.342	157	34.56	17
Sept. 7	11.103	184	39.58	35	6.82	62	88.84	94	49.694	261	65.89	59	16.185	159	34.39	10
17	10.919	176	39.23	70	6.20	60	87.90	144	49.433	252	65.30	106	16.026	151	34.29	3
27	10.743	159	38.53	104	5.60	56	86.46	193	49.181	232	64.24	151	15.875	135	34.26	5
Okt. 7	10.584	133	37.49	138	5.04	50	84.53	240	48.949	202	62.73	195	15.740	109	34.31	16
17	10.451	97	36.11	172	4.54	42	82.13	281	48.747	162	60.78	236	15.631	73	34.47	28
27	10.354	55	34.39	202	4.12	34	79.32	318	48.585	113	58.42	272	15.558	31	34.75	43
Nov. 6	10.299	7	32.37	229	3.78	24	76.14	348	48.472	57	55.70	304	15.527	16	35.18	58
16	10.292	44	30.08	252	3.54	13	72.66	370	48.415	2	52.66	329	15.543	66	35.76	74
26	10.336	95	27.56	270	3.41	1	68.96	382	48.417	65	49.37	345	15.609	117	36.50	91
Dez. 6	10.431	145	24.86	281	3.40	11	65.14	384	48.482	127	45.92	353	15.726	166	37.41	106
16	10.576	192	22.05	282	3.51	23	61.30	375	48.609	185	42.39	350	15.892	209	38.47	119
26	10.768	233	19.23	277	3.74	34	57.55	352	48.794	238	38.89	336	16.101	246	39.66	128
36	11.001		16.46		4.08		54.03		49.032		35.53		16.347		40.94	
Mittl. Ort	10.010		35.38		6.79		78.45		48.812		57.25		14.822		28.86	
sec δ, tg δ	1.076		+0.397		2.781		+2.595		1.358		+0.919		1.017		−0.184	

*) Bei Stern 622) lies Mai 31

Tag	626) η Herculis AR.		Dekl.		625) α Triang. austr. AR.		Dekl.		627) Grb 2377 AR.		Dekl.		628) ε Scorpii AR.		Dekl.	
1929	16ʰ 40ᵐ		+39° 3′		16ʰ 41ᵐ		−68° 53′		16ʰ 43ᵐ		+56° 54′		16ʰ 45ᵐ		−34° 9′	
Jan. 1	25.666	252	13.39	319	2.42	60	53.27	159	54.541	289	17.95	343	30.994	300	55.35	3
11	25.918	291	10.20	290	3.02	67	51.68	122	54.830	348	14.52	309	31.294	330	55.38	21
21	26.209	321	7.30	250	3.69	73	50.46	81	55.178	397	11.43	264	31.624	353	55.59	37
31	26.530	341	4.80	203	4.42	76	49.65	39	55.575	433	8.79	209	31.977	367	55.96	51
Feb. 10	26.871	353	2.77	148	5.18	79	49.26	2	56.008	455	6.70	148	32.344	373	56.47	63
20	27.224	355	1.29	89	5.97	79	49.28	43	56.463	465	5.22	83	32.717	371	57.10	72
März 2	27.579	349	0.40	28	6.76	78	49.71	83	56.928	460	4.39	14	33.088	365	57.82	78
12	27.928	336	0.12	32	7.54	75	50.54	118	57.388	443	4.25	52	33.453	354	58.60	82
22	28.264	316	0.44	89	8.29	72	51.72	151	57.831	415	4.77	114	33.807	338	59.42	85
Apr. 1	28.580	290	1.33	142	9.01	67	53.23	181	58.246	378	5.91	171	34.145	320	60.27	87
11	28.870	261	2.75	187	9.68	62	55.04	208	58.624	331	7.62	220	34.465	297	61.14	88
21	29.131	226	4.62	223	10.30	55	57.12	229	58.955	279	9.82	260	34.762	272	62.02	90
Mai 1	29.357	189	6.85	251	10.85	47	59.41	247	59.234	221	12.42	289	35.034	243	62.92	90
11	29.546	148	9.36	270	11.32	39	61.88	259	59.455	160	15.31	308	35.277	211	63.82	91
21	29.694	106	12.06	278	11.71	31	64.47	267	59.615	95	18.39	315	35.488	175	64.73	91
31	29.800	63	14.84	277	12.02	21	67.14	268	59.710	29	21.54	315	35.663	135	65.64	90
Juni 9	[2] 29.863	18	17.61	269	[2] 12.23	10	69.82	263	[3] 59.739	35	24.69	303	[3] 35.798	94	66.54	87
19	29.881	27	20.30	252	12.33	1	72.45	252	59.704	98	27.72	284	35.892	51	67.41	82
29	29.854	71	22.82	229	12.34	9	74.97	234	59.606	159	30.56	256	35.943	6	68.23	77
Juli 9	29.783	111	25.11	200	12.25	19	77.31	210	59.447	215	33.12	223	35.949	38	69.00	68
19	29.672	149	27.11	166	12.06	28	79.41	179	59.232	267	35.35	183	35.911	79	69.68	57
29	29.523	183	28.77	128	11.78	36	81.20	143	58.965	309	37.18	140	35.832	117	70.25	44
Aug. 8	29.340	210	30.05	88	11.42	43	82.63	102	58.656	344	38.58	93	35.715	149	70.69	28
18	29.130	230	30.93	44	10.99	47	83.65	57	58.312	371	39.51	43	35.566	174	70.97	11
28	28.900	243	31.37	0	10.52	50	84.22	10	57.941	385	39.94	7	35.392	189	71.08	7
Sept. 7	28.657	245	31.37	46	10.02	50	84.32	39	57.556	387	39.87	59	35.203	194	71.01	25
17	28.412	239	30.91	91	9.52	48	83.93	86	57.169	378	39.28	110	35.009	187	70.76	41
27	28.173	221	30.00	135	9.04	43	83.07	131	56.791	356	38.18	159	34.822	169	70.35	57
Okt. 7	27.952	193	28.65	179	8.61	37	81.76	170	56.435	319	36.59	208	34.653	139	69.78	68
17	27.759	155	26.86	219	8.24	28	80.06	203	56.116	272	34.51	252	34.514	98	69.10	76
27	27.604	110	24.67	256	7.96	18	78.03	229	55.844	212	31.99	291	34.416	49	68.34	80
Nov. 6	27.494	57	22.11	288	7.78	5	75.74	244	55.632	144	29.08	326	34.367	6	67.54	77
16	27.437	1	19.23	315	7.73	8	73.30	250	55.488	68	25.82	352	34.373	64	66.77	71
26	27.436	59	16.08	332	7.81	20	70.80	247	55.420	11	22.30	369	34.437	124	66.06	60
Dez. 6	27.495	118	12.76	343	8.01	33	68.33	232	55.431	93	18.61	377	34.561	182	65.46	46
16	27.613	174	9.33	341	8.34	44	66.01	211	55.524	172	14.84	374	34.743	233	65.00	28
26	27.787	225	5.92	330	8.78	55	63.90	182	55.696	246	11.10	357	34.976	278	64.72	10
36	28.012		2.62		9.33		62.08		55.942		7.53		35.254		64.62	
Mittl. Ort	27.680		23.11		7.72		59.85		56.898		29.30		33.595		57.19	
sec δ, tg δ	1.288		+0.811		2.778		−2.592		1.832		+1.534		1.209		−0.679	

Tag	629) 49 Herculis AR.	Diff.	629) 49 Herculis Dekl.	Diff.	630) ζ² Scorpii AR.	Diff.	630) ζ² Scorpii Dekl.	Diff.
1929	16ʰ 48ᵐ		+15° 5′		16ʰ 49ᵐ		−42° 14′	
Jan. 1	48ˢ.865	234	25″.08	245	31ˢ.959	325	26″.45	43
11	49.099	264	22.63	230	32.284	360	26.02	20
21	49.363	286	20.33	206	32.644	387	25.82	2
31	49.649	300	18.27	176	33.031	404	25.84	23
Feb. 10	49.949	307	16.51	139	33.435	411	26.07	42
20	50.256	308	15.12	97	33.846	412	26.49	59
März 2	50.564	304	14.15	52	34.258	406	27.08	74
12	50.868	294	13.63	8	34.664	394	27.82	87
22	51.162	279	13.55	35	35.058	378	28.69	98
Apr. 1	51.441	263	13.90	75	35.436	358	29.67	107
11	51.704	242	14.65	110	35.794	333	30.74	116
21	51.946	218	15.75	139	36.127	305	31.90	122
Mai 1	52.164	191	17.14	162	36.432	273	33.12	128
11	52.355	163	18.76	178	36.705	236	34.40	132
21	52.518	131	20.54	186	36.941	196	35.72	134
31	52.649	97	22.40	189	37.137	152	37.06	135
Juni 9	52.746	61	24.29	185	37.289	105	38.41	132
19	52.807	25	26.14	176	37.394	56	39.73	127
29	52.832	12	27.90	161	37.450	5	41.00	118
Juli 9	52.820	48	29.51	144	37.455	43	42.18	106
19	52.772	82	30.95	122	37.412	90	43.24	91
29	52.690	113	32.17	98	37.322	133	44.15	71
Aug. 8	52.577	138	33.15	73	37.189	169	44.86	50
18	52.439	159	33.88	45	37.020	196	45.36	27
28	52.280	173	34.33	16	36.824	215	45.63	0
Sept. 7	52.107	176	34.49	14	36.609	220	45.63	25
17	51.931	173	34.35	43	36.389	213	45.38	50
27	51.758	158	33.92	74	36.176	193	44.88	73
Okt. 7	51.600	135	33.18	105	35.983	161	44.15	92
17	51.465	104	32.13	134	35.822	116	43.23	107
27	51.361	65	30.79	163	35.706	63	42.16	117
Nov. 6	51.296	19	29.16	189	35.643	2	40.99	121
16	51.277	30	27.27	212	35.641	63	39.78	118
26	51.307	79	25.15	231	35.704	128	38.60	110
Dez. 6	51.386	128	22.84	245	35.832	192	37.50	96
16	51.514	174	20.39	251	36.024	251	36.54	79
26	51.688	214	17.88	248	36.275	301	35.75	57
36	51.902		15.40		36.576		35.18	
Mittl. Ort	50.849		31.43		34.844		29.16	
sec δ, tg δ	1.036		+0.270		1.351		−0.908	

Tag	631) ζ Arae AR.	Diff.	631) ζ Arae Dekl.	Diff.	633) κ Ophiuchi AR.	Diff.	633) κ Ophiuchi Dekl.	Diff.
1929	16ʰ 52ᵐ		−55° 52′		16ʰ 54ᵐ		+9° 28′	
Jan. 1	40ˢ.544	400	44″.01	114	16ˢ.365	231	57″.29	221
11	40.944	450	42.87	84	16.596	260	55.08	209
21	41.394	487	42.03	54	16.856	282	52.99	191
31	41.881	511	41.49	21	17.138	296	51.08	164
Feb. 10	42.392	524	41.28	10	17.434	303	49.44	133
20	42.916	528	41.38	39	17.737	304	48.11	96
März 2	43.444	523	41.77	68	18.041	301	47.15	57
12	43.967	509	42.45	93	18.342	292	46.58	17
22	44.476	488	43.38	118	18.634	279	46.41	22
Apr. 1	44.964	462	44.56	139	18.913	263	46.63	58
11	45.426	430	45.95	157	19.176	244	47.21	90
21	45.856	392	47.52	173	19.420	223	48.11	116
Mai 1	46.248	347	49.25	187	19.643	197	49.27	137
11	46.595	298	51.12	197	19.840	170	50.64	152
21	46.893	243	53.09	203	20.010	139	52.16	160
31	47.136	184	55.12	205	20.149	106	53.76	163
Juni 9	47.320	121	57.17	203	20.255	71	55.39	161
19	47.441	55	59.20	196	20.326	35	57.00	152
29	47.496	11	61.16	184	20.361	1	58.52	141
Juli 9	47.485	75	63.00	167	20.360	37	59.93	126
19	47.410	137	64.67	144	20.323	72	61.19	108
29	47.273	192	66.11	116	20.251	104	62.27	88
Aug. 8	47.081	239	67.27	85	20.147	130	63.15	66
18	46.842	274	68.12	51	20.017	151	63.81	43
28	46.568	298	68.63	13	19.866	165	64.24	19
Sept. 7	46.270	304	68.76	25	19.701	171	64.43	6
17	45.966	296	68.51	63	19.530	167	64.37	32
27	45.670	271	67.88	98	19.363	154	64.05	57
Okt. 7	45.399	228	66.90	130	19.209	132	63.48	84
17	45.171	173	65.60	155	19.077	101	62.64	110
27	44.998	104	64.05	176	18.976	62	61.54	136
Nov. 6	44.894	25	62.29	187	18.914	18	60.18	160
16	44.869	57	60.42	191	18.896	29	58.58	182
26	44.926	142	58.51	187	18.925	79	56.76	200
Dez. 6	45.068	225	56.64	175	19.004	127	54.76	214
16	45.293	301	54.89	156	19.131	172	52.62	222
26	45.594	368	53.33	133	19.303	211	50.40	223
36	45.962		52.00		19.514		48.17	
Mittl. Ort	44.213		48.15		18.383		62.86	
sec δ, tg δ	1.783		−1.476		1.014		+0.167	

Scheinbare Sternörter 1929

Tag	634) ε Herculis				637) η Ophiuchi				639) ζ Draconis				640) α Herculis			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
1929	$16^h\ 57^m$		$+31°\ 1'$		$17^h\ 6^m$		$-15°\ 38'$		$17^h\ 8^m$		$+65°\ 47'$		$17^h\ 11^m$		$+14°\ 27'$	
Jan. 1	$32^s.323$	227	$39''.17$	301	$15^s.969$	244	$20''.85$	90	$31^s.67$	28	$56''.37$	355	$22^s.495$	215	$65''.46$	240
11	32.550	264	36.16	279	16.213	274	21.75	94	31.95	37	52.82	325	22.710	246	63.06	227
21	32.814	292	33.37	245	16.487	296	22.69	95	32.32	45	49.57	283	22.956	271	60.79	206
31	33.106	313	30.92	205	16.783	311	23.64	91	32.77	51	46.74	231	23.227	289	58.73	177
Feb. 10	33.419	324	28.87	156	17.094	319	24.55	84	33.28	55	44.43	171	23.516	300	56.96	142
20	33.743	329	27.31	103	17.413	321	25.39	72	33.83	58	42.72	106	23.816	304	55.54	101
März 2	34.072	327	26.28	46	17.734	319	26.11	59	34.41	59	41.66	38	24.120	303	54.53	58
12	34.399	317	25.82	10	18.053	312	26.70	44	35.00	57	41.28	30	24.423	298	53.95	14
22	34.716	303	25.92	64	18.365	301	27.14	29	35.57	55	41.58	95	24.721	287	53.81	30
Apr. 1	35.019	284	26.56	115	18.666	288	27.43	14	36.12	50	42.53	156	25.008	274	54.11	70
11	35.303	260	27.71	158	18.954	271	27.57	1	36.62	45	44.09	209	25.282	256	54.81	107
21	35.563	232	29.29	196	19.225	252	27.58	10	37.07	38	46.18	252	25.538	235	55.88	136
Mai 1	35.795	201	31.25	223	19.477	228	27.48	18	37.45	31	48.70	287	25.773	210	57.24	161
11	35.996	167	33.48	244	19.705	202	27.30	23	37.76	23	51.57	310	25.983	183	58.85	178
21	36.163	129	35.92	255	19.907	172	27.07	26	37.99	13	54.67	324	26.166	152	60.63	189
31	36.292	91	38.47	257	20.079	139	26.81	28	38.12	5	57.91	327	26.318	119	62.52	192
Juni 9	36.383	49	41.04	253	20.218	104	26.53	27	38.17	5	61.18	320	26.437	82	64.44	190
19	36.432	8	43.57	239	20.322	66	26.26	24	38.12	13	64.38	304	26.519	45	66.34	182
29	36.440	33	45.96	221	20.388	27	26.02	22	37.99	21	67.42	280	26.564	7	68.16	170
Juli 9	36.407	73	48.17	197	20.415	13	25.80	19	37.78	29	70.22	249	26.571	31	69.86	153
19	36.334	111	50.14	168	20.402	50	25.61	16	37.49	37	72.71	212	26.540	67	71.39	132
29	36.223	145	51.82	134	20.352	85	25.45	13	37.12	43	74.83	170	26.473	101	72.71	109
Aug. 8	36.078	173	53.16	99	20.267	116	25.32	12	36.69	47	76.53	123	26.372	130	73.80	83
18	35.905	196	54.15	61	20.151	141	25.20	11	36.22	52	77.76	75	26.242	154	74.63	57
28	35.709	211	54.76	20	20.010	157	25.09	9	35.70	54	78.51	24	26.088	170	75.20	29
Sept. 7	35.498	217	54.96	20	19.853	166	25.00	9	35.16	56	78.75	29	25.918	179	75.49	1
17	35.281	213	54.76	62	19.687	163	24.91	8	34.60	55	78.46	82	25.739	177	75.48	30
27	35.068	200	54.14	103	19.524	152	24.83	4	34.05	52	77.64	133	25.562	168	75.18	61
Okt. 7	34.868	176	53.11	143	19.372	129	24.79	0	33.53	49	76.31	183	25.394	147	74.57	90
17	34.692	144	51.68	182	19.243	98	24.79	7	33.04	43	74.48	231	25.247	118	73.67	121
27	34.548	103	49.86	218	19.145	57	24.86	14	32.61	37	72.17	274	25.129	82	72.46	149
Nov. 6	34.445	55	47.68	250	19.088	12	25.00	24	32.24	29	69.43	312	25.047	38	70.97	176
16	34.390	3	45.18	278	19.076	38	25.24	37	31.95	19	66.31	342	25.009	8	69.21	199
26	34.387	50	42.40	298	19.114	88	25.61	49	31.76	9	62.89	364	25.017	57	67.22	220
Dez. 6	34.437	104	39.42	311	19.202	139	26.10	62	31.67	1	59.25	377	25.074	106	65.02	234
16	34.541	156	36.31	315	19.341	184	26.72	74	31.68	12	55.48	378	25.180	152	62.68	243
26	34.697	203	33.16	307	19.525	225	27.46	83	31.80	22	51.70	367	25.332	193	60.25	242
36	34.900		30.09		19.750		28.29		32.02		48.03		25.525		57.83	
Mittl. Ort	34.349		47.66		18.240		18.62		34.64		67.15		24.543		71.90	
sec δ, tg δ	1.167		+0.602		1.038		−0.280		2.440		+2.225		1.033		+0.258	

Tag	641) δ Herculis AR.		Dekl.		643) π Herculis AR.		Dekl.		644) ϑ Ophiuchi AR.		Dekl.		645) β Arae AR.		Dekl.	
1929	17h 12m		+24° 54′		17h 12m		+36° 52′		17h 17m		−24° 55′		17h 19m		−55° 27′	
Jan. 1	4.826	212	70.91	282	32.293	214	68.74	319	36.348	250	50.50	32	19.856	362	52.19	137
11	5.038	247	68.09	265	32.507	256	65.55	297	36.598	282	50.82	41	20.218	415	50.82	112
21	5.285	275	65.44	237	32.763	289	62.58	264	36.880	307	51.23	48	20.633	458	49.70	84
31	5.560	296	63.07	200	33.052	315	59.94	220	37.187	324	51.71	52	21.091	489	48.86	55
Feb. 10	5.856	308	61.07	158	33.367	332	57.74	170	37.511	335	52.23	53	21.580	509	48.31	27
20	6.164	314	59.49	109	33.699	341	56.04	113	37.846	340	52.76	52	22.089	519	48.04	2
März 2	6.478	315	58.40	57	34.040	341	54.91	55	38.186	339	53.28	49	22.608	521	48.06	30
12	6.793	309	57.83	5	34.381	336	54.36	6	38.525	333	53.77	44	23.129	515	48.36	55
22	7.102	298	57.78	46	34.717	324	54.42	64	38.858	325	54.21	38	23.644	501	48.91	81
Apr. 1	7.400	282	58.24	94	35.041	304	55.06	117	39.183	312	54.59	33	24.145	481	49.72	103
11	7.682	262	59.18	136	35.345	281	56.23	166	39.495	296	54.92	28	24.626	454	50.75	124
21	7.944	239	60.54	173	35.626	253	57.89	207	39.791	277	55.20	25	25.080	422	51.99	144
Mai 1	8.183	212	62.27	200	35.879	220	59.96	239	40.068	253	55.45	23	25.502	382	53.43	160
11	8.395	181	64.27	221	36.099	183	62.35	261	40.321	226	55.68	22	25.884	336	55.03	175
21	8.576	147	66.48	234	36.282	143	64.96	276	40.547	196	55.90	22	26.220	285	56.78	185
31	8.723	111	68.82	237	36.425	101	67.72	280	40.743	160	56.12	24	26.505	227	58.63	193
Juni 10	8.834	73	71.19	235	36.526	56	70.52	277	40.903	122	56.36	25	26.732	165	60.56	196
19	[10]8.907	32	73.54	226	[10]36.582	11	73.29	266	[11]41.025	82	56.61	27	[12]26.897	99	62.52	195
29	8.939	9	75.80	209	36.593	34	75.95	246	41.107	40	56.88	28	26.996	32	64.47	188
Juli 9	8.930	48	77.89	189	36.559	78	78.41	222	41.147	3	57.16	27	27.028	36	66.35	175
19	8.882	85	79.78	163	36.481	119	80.63	192	41.144	45	57.43	26	26.992	101	68.10	158
29	8.797	121	81.41	134	36.362	157	82.55	157	41.099	83	57.69	22	26.891	161	69.68	135
Aug. 8	8.676	151	82.75	103	36.205	190	84.12	119	41.016	118	57.91	17	26.730	213	71.03	107
18	8.525	175	83.78	68	36.015	215	85.31	78	40.898	145	58.08	11	26.517	256	72.10	76
28	8.350	191	84.46	32	35.800	233	86.09	35	40.753	165	58.19	3	26.261	286	72.86	41
Sept. 7	8.159	200	84.78	4	35.567	242	86.44	8	40.588	176	58.22	5	25.975	302	73.27	3
17	7.959	200	84.74	43	35.325	240	86.36	54	40.412	175	58.17	12	25.673	301	73.30	34
27	7.759	188	84.31	80	35.085	229	85.82	98	40.237	165	58.05	20	25.372	284	72.96	71
Okt. 7	7.571	168	83.51	117	34.856	207	84.84	142	40.072	143	57.85	26	25.088	249	72.25	106
17	7.403	139	82.34	154	34.649	176	83.42	185	39.929	110	57.59	28	24.839	201	71.19	135
27	7.264	101	80.80	188	34.473	135	81.57	224	39.819	70	57.31	29	24.638	138	69.84	159
Nov. 6	7.163	56	78.92	219	34.338	86	79.33	259	39.749	22	57.02	26	24.500	65	68.25	176
16	7.107	8	76.73	246	34.252	34	76.74	288	39.727	30	56.76	19	24.435	15	66.49	186
26	7.099	44	74.27	268	34.218	23	73.86	312	39.757	83	56.57	11	24.450	98	64.63	188
Dez. 6	7.143	94	71.59	283	34.241	79	70.74	327	39.840	136	56.46	0	24.548	180	62.75	182
16	7.237	144	68.76	290	34.320	135	67.47	332	39.976	185	56.46	12	24.728	257	60.93	170
26	7.381	188	65.86	287	34.455	186	64.15	327	40.161	229	56.58	23	24.985	327	59.23	152
36	7.569		62.99		34.641		60.88		40.390		56.81		25.312		57.71	
Mittl. Ort	6.877		78.56		34.411		77.57		38.800		48.86		23.568		53.74	
sec δ, tg δ	1.103		+0.465		1.250		+0.750		1.103		−0.465		1.764		−1.453	

Tag	648) δ Arae AR.	Δ	648) δ Arae Dekl.	Δ	651) α Arae AR.	Δ	651) α Arae Dekl.	Δ	652) λ Scorpii AR.	Δ	652) λ Scorpii Dekl.	Δ	653) β Draconis AR.	Δ	653) β Draconis Dekl.	Δ
1929	$17^h 24^m$		−60° 37′		$17^h 26^m$		−49° 49′		$17^h 28^m$		−37° 3′		$17^h 28^m$		+52° 20′	
Jan. 1	36.87	40	34.85	166	17.624	318	18.71	113	44.258	267	14.39	45	47.205	205	62.43	353
11	37.27	46	33.19	140	17.942	367	17.58	92	44.525	306	13.94	30	47.410	266	58.90	329
21	37.73	51	31.79	110	18.309	404	16.66	69	44.831	336	13.64	16	47.676	316	55.61	294
31	38.24	55	30.69	78	18.713	432	15.97	45	45.167	358	13.48	2	47.992	357	52.67	247
Feb. 10	38.79	57	29.91	46	19.145	451	15.52	22	45.525	372	13.46	10	48.349	388	50.20	192
20	39.36	59	29.45	14	19.596	461	15.30	2	45.897	380	13.56	21	48.737	408	48.28	131
März 2	39.95	60	29.31	18	20.057	463	15.32	24	46.277	381	13.77	31	49.145	417	46.97	66
12	40.55	59	29.49	49	20.520	459	15.56	45	46.658	379	14.08	38	49.562	414	46.31	0
22	41.14	57	29.98	78	20.979	448	16.01	64	47.037	370	14.46	46	49.976	402	46.31	65
Apr. 1	41.71	55	30.76	106	21.427	432	16.65	83	47.407	358	14.92	52	50.378	380	46.96	126
11	42.26	52	31.82	131	21.859	411	17.48	100	47.765	341	15.44	59	50.758	350	48.22	181
21	42.78	49	33.13	155	22.270	384	18.48	116	48.106	320	16.03	66	51.108	312	50.03	227
Mai 1	43.27	44	34.68	175	22.654	351	19.64	132	48.426	295	16.69	72	51.420	268	52.30	264
11	43.71	39	36.43	193	23.005	313	20.96	143	48.721	266	17.41	79	51.688	218	54.94	293
21	44.10	32	38.36	206	23.318	268	22.39	153	48.987	230	18.20	85	51.906	164	57.87	311
31	44.42	26	40.42	215	23.586	218	23.92	161	49.217	191	19.05	90	52.070	107	60.98	318
Juni 10	44.68	19	42.57	220	23.804	164	25.53	165	49.408	147	19.95	93	52.177	47	64.16	317
19	[13] 44.87	11	44.77	219	[13] 23.968	107	27.18	166	[14] 49.555	101	20.88	94	[14] 52.224	14	67.33	307
29	44.98	3	46.96	213	24.075	47	28.84	161	49.656	53	21.82	94	52.210	73	70.40	287
Juli 9	45.01	4	49.09	199	24.122	14	30.45	152	49.709	3	22.76	90	52.137	131	73.27	262
19	44.97	12	51.08	181	24.108	72	31.97	138	49.712	45	23.66	83	52.006	184	75.89	230
29	44.85	19	52.89	156	24.036	127	33.35	120	49.667	90	24.49	73	51.822	233	78.19	192
Aug. 8	44.66	25	54.45	127	23.909	174	34.55	98	49.577	130	25.22	59	51.589	274	80.11	149
18	44.41	30	55.72	91	23.735	215	35.53	70	49.447	164	25.81	44	51.315	309	81.60	105
28	44.11	34	56.63	52	23.520	243	36.23	40	49.283	189	26.25	25	51.006	333	82.65	56
Sept. 7	43.77	35	57.15	11	23.277	259	36.63	8	49.094	202	26.50	5	50.673	347	83.21	6
17	43.42	36	57.26	31	23.018	261	36.71	24	48.892	204	26.55	16	50.326	348	83.27	45
27	43.06	34	56.95	72	22.757	247	36.47	56	48.688	193	26.39	35	49.978	338	82.82	96
Okt. 7	42.72	30	56.23	111	22.510	219	35.91	86	48.495	171	26.04	53	49.640	315	81.86	145
17	42.42	25	55.12	145	22.291	176	35.05	112	48.324	137	25.51	68	49.325	280	80.41	194
27	42.17	18	53.67	174	22.115	122	33.93	133	48.187	92	24.83	80	49.045	234	78.47	239
Nov. 6	41.99	9	51.93	195	21.993	59	32.60	148	48.095	40	24.03	86	48.811	178	76.08	279
16	41.90	0	49.98	209	21.934	12	31.12	157	48.055	18	23.17	88	48.633	115	73.29	313
26	41.90	9	47.89	214	21.946	85	29.55	158	48.073	77	22.29	86	48.518	46	70.16	341
Dez. 6	41.99	18	45.75	210	22.031	157	27.97	153	48.150	137	21.43	79	48.472	26	66.75	358
16	42.17	27	43.65	199	22.188	226	26.44	143	48.287	192	20.64	68	48.498	97	63.17	364
26	42.44	36	41.66	182	22.414	288	25.01	126	48.479	243	19.96	56	48.595	166	59.53	360
36	42.80		39.84		22.702		23.75		48.722		19.40		48.761		55.93	
Mittl. Ort	41.08		36.31		20.963		19.10		47.042		13.33		49.656		71.77	
sec δ, tg δ	2.039		−1.777		1.550		−1.184		1.253		−0.755		1.637		+1.296	

Tag	656) α Ophiuchi AR.		656) α Ophiuchi Dekl.		654) ϑ Scorpii AR.		654) ϑ Scorpii Dekl.		658) ξ Serpentis AR.		658) ξ Serpentis Dekl.		664) ω Draconis AR.		664) ω Draconis Dekl.	
1929	17ʰ 31ᵐ		+12° 36′		17ʰ 32ᵐ		−42° 57′		17ʰ 33ᵐ		−15° 21′		17ʰ 37ᵐ		+68° 47′	
Jan. 1	36.163	197	31.00	229	9.804	283	17.26	81	28.853	220	23.04	78	18.40	23	17.99	363
11	36.360	230	28.71	219	10.087	325	16.45	63	29.073	252	23.82	82	18.63	33	14.36	338
21	36.590	257	26.52	200	10.412	359	15.82	46	29.325	278	24.64	81	18.96	43	10.98	303
31	36.847	277	24.52	174	10.771	384	15.36	27	29.603	296	25.45	77	19.39	52	7.95	256
Feb. 10	37.124	291	22.78	141	11.155	400	15.09	10	29.899	308	26.22	69	19.91	57	5.39	201
20	37.415	299	21.37	104	11.555	410	14.99	6	30.207	315	26.91	57	20.48	62	3.38	138
März 2	37.714	301	20.33	62	11.965	413	15.05	22	30.522	318	27.48	43	21.10	64	2.00	71
12	38.015	299	19.71	19	12.378	410	15.27	35	30.840	314	27.91	29	21.74	65	1.29	4
22	38.314	292	19.52	23	12.788	402	15.62	49	31.154	309	28.20	13	22.39	63	1.25	63
Apr. 1	38.606	282	19.75	62	13.190	389	16.11	61	31.463	300	28.33	2	23.02	59	1.88	127
11	38.888	267	20.37	99	13.579	372	16.72	74	31.763	286	28.31	14	23.61	54	3.15	183
21	39.155	249	21.36	129	13.951	349	17.46	85	32.049	270	28.17	24	24.15	48	4.98	232
Mai 1	39.404	226	22.65	153	14.300	321	18.31	95	32.319	249	27.93	32	24.63	39	7.30	272
11	39.630	201	24.18	172	14.621	289	19.26	106	32.568	225	27.61	37	25.02	30	10.02	302
21	39.831	172	25.90	184	14.910	250	20.32	114	32.793	197	27.24	39	25.32	21	13.04	322
31	40.003	139	27.74	188	15.160	208	21.46	121	32.990	164	26.85	39	25.53	11	16.26	331
Juni 10	40.142	103	29.62	187	15.368	160	22.67	126	33.154	129	26.46	36	25.64	0	19.57	331
19	[15] 40.245	66	31.49	181	[15] 15.528	110	23.93	127	[15] 33.283	91	26.10	32	[16] 25.64	10	22.88	321
29	40.311	26	33.30	169	15.638	56	25.20	126	33.374	50	25.78	27	25.54	20	26.09	303
Juli 9	40.337	13	34.99	154	15.694	3	26.46	120	33.424	10	25.51	22	25.34	29	29.12	277
19	40.324	51	36.53	135	15.697	50	27.66	111	33.434	31	25.29	17	25.05	39	31.89	245
29	40.273	87	37.88	113	15.647	100	28.77	97	33.403	69	25.12	13	24.66	46	34.34	207
Aug. 8	40.186	118	39.01	89	15.547	144	29.74	80	33.334	103	24.99	9	24.20	52	36.41	164
18	40.068	145	39.90	64	15.403	180	30.54	59	33.231	131	24.90	6	23.68	58	38.05	116
28	39.923	165	40.54	37	15.223	207	31.13	36	33.100	152	24.84	3	23.10	62	39.21	67
Sept. 7	39.758	175	40.91	10	15.016	223	31.49	11	32.948	166	24.81	2	22.48	64	39.88	16
17	39.583	178	41.01	19	14.793	226	31.60	16	32.782	168	24.79	0	21.84	65	40.04	37
27	39.405	171	40.82	47	14.567	215	31.44	42	32.614	160	24.79	2	21.19	63	39.67	90
Okt. 7	39.234	154	40.35	76	14.352	192	31.02	65	32.454	142	24.81	6	20.56	60	38.77	141
17	39.080	128	39.59	105	14.160	154	30.37	86	32.312	115	24.87	10	19.96	55	37.36	192
27	38.952	94	38.54	132	14.006	108	29.51	103	32.197	79	24.97	16	19.41	49	35.44	239
Nov. 6	38.858	53	37.22	159	13.898	51	28.48	114	32.118	35	25.13	25	18.92	40	33.05	281
16	38.805	7	35.63	183	13.847	11	27.34	120	32.083	12	25.38	35	18.52	30	30.24	317
26	38.798	40	33.80	203	13.858	75	26.14	121	32.095	62	25.73	45	18.22	20	27.07	345
Dez. 6	38.838	87	31.77	219	13.933	139	24.93	116	32.157	111	26.18	55	18.02	8	23.62	364
16	38.925	134	29.58	228	14.072	200	23.77	105	32.268	157	26.73	65	17.94	4	19.98	373
26	39.059	176	27.30	230	14.272	256	22.72	92	32.425	199	27.38	74	17.98	15	16.25	369
36	39.235		25.00		14.528		21.80		32.624		28.12		18.13		12.56	
Mittl. Ort	38.259		37.40		12.812		16.50		31.168		19.42		21.86		27.37	
sec δ, tg δ	1.025		+0.224		1.366		−0.931		1.037		−0.275		2.764		+2.577	

Tag	663) ι Herculis AR.	Diff.	663) ι Herculis Dekl.	Diff.	661) η Pavonis AR.	Diff.	661) η Pavonis Dekl.	Diff.	665) β Ophiuchi AR.	Diff.	665) β Ophiuchi Dekl.	Diff.	670) ψ Draconis AR.	Diff.	670) ψ Draconis Dekl.	Diff.
1929	17ʰ 37ᵐ		+46° 2′		17ʰ 38ᵐ		−64° 41′		17ʰ 39ᵐ		+4° 35′		17ʰ 43ᵐ		+72° 10′	
	s		″		s		″		s		″		s		″	
Jan. 1	25.259	188	26.78	344	40.80	41	31.38	196	55.714	194	38.19	187	7.84	23	53.90	364
11	25.447	240	23.34	322	41.21	49	29.42	172	55.908	227	36.32	180	8.07	36	50.26	341
21	25.687	285	20.12	290	41.70	56	27.70	142	56.135	253	34.52	167	8.43	47	46.85	306
31	25.972	321	17.22	247	42.26	60	26.28	110	56.388	273	32.85	147	8.90	57	43.79	262
Feb. 10	26.293	348	14.75	196	42.86	64	25.18	77	56.661	287	31.38	121	9.47	66	41.17	207
20	26.641	367	12.79	138	43.50	66	24.41	42	56.948	295	30.17	90	10.13	71	39.10	146
März 2	27.008	375	11.41	74	44.16	68	23.99	6	57.243	298	29.27	56	10.84	74	37.64	79
12	27.383	375	10.67	10	44.84	67	23.93	27	57.541	298	28.71	21	11.58	75	36.85	12
22	27.758	367	10.57	52	45.51	66	24.20	60	57.839	293	28.50	14	12.33	74	36.73	55
Apr. 1	28.125	350	11.09	113	46.17	64	24.80	92	58.132	284	28.64	47	13.07	69	37.28	118
11	28.475	326	12.22	166	46.81	61	25.72	122	58.416	271	29.11	77	13.76	63	38.46	175
21	28.801	297	13.88	213	47.42	56	26.94	149	58.687	255	29.88	103	14.39	56	40.21	226
Mai 1	29.098	260	16.01	251	47.98	52	28.43	174	58.942	236	30.91	124	14.95	46	42.47	266
11	29.358	218	18.52	280	48.50	46	30.17	196	59.178	211	32.15	138	15.41	35	45.13	297
21	29.576	172	21.32	298	48.96	39	32.13	213	59.389	183	33.53	148	15.76	24	48.10	318
31	29.748	123	24.30	308	49.35	32	34.26	226	59.572	152	35.01	152	16.00	12	51.28	328
Juni 10	29.871	71	27.38	309	49.67	23	36.52	234	59.724	118	36.53	150	16.12	1	54.56	330
19	[16] 29.942	17	30.47	300	[16] 49.90	15	38.86	236	[17] 59.842	80	38.03	145	[18] 16.11	13	57.86	321
29	29.959	36	33.47	283	50.05	5	41.22	232	59.922	41	39.48	136	15.98	24	61.07	304
Juli 9	29.923	88	36.30	259	50.10	4	43.54	221	59.963	3	40.84	123	15.74	35	64.11	280
19	29.835	137	38.89	230	50.06	12	45.75	203	59.966	36	42.07	107	15.39	46	66.91	247
29	29.698	183	41.19	195	49.94	20	47.78	179	59.930	73	43.14	91	14.93	56	69.38	211
Aug. 8	29.515	223	43.14	155	49.74	28	49.57	150	59.857	106	44.05	72	14.37	63	71.49	169
18	29.292	256	44.69	112	49.46	34	51.07	113	59.751	134	44.77	53	13.74	70	73.18	123
28	29.036	279	45.81	66	49.12	39	52.20	73	59.617	154	45.30	32	13.04	74	74.41	74
Sept. 7	28.757	294	46.47	18	48.73	41	52.93	30	59.463	167	45.62	12	12.30	77	75.15	22
17	28.463	298	46.65	31	48.32	42	53.23	16	59.296	170	45.74	10	11.53	78	75.37	30
27	28.165	289	46.34	80	47.90	41	53.07	61	59.126	164	45.64	31	10.75	76	75.07	82
Okt. 7	27.876	271	45.54	128	47.49	36	52.46	104	58.962	148	45.33	54	9.99	73	74.25	135
17	27.605	241	44.26	176	47.13	31	51.42	144	58.814	124	44.79	76	9.26	68	72.90	185
27	27.364	200	42.50	219	46.82	24	49.98	177	58.690	91	44.03	98	8.58	61	71.05	232
Nov. 6	27.164	150	40.31	261	46.58	15	48.21	204	58.599	50	43.05	119	7.97	51	68.73	275
16	27.014	95	37.79	295	46.43	4	46.17	223	58.549	7	41.86	139	7.46	40	65.98	312
26	26.919	33	34.75	323	46.39	6	43.94	232	58.542	40	40.47	157	7.06	27	62.86	342
Dez. 6	26.886	30	31.52	342	46.45	16	41.62	233	58.582	87	38.90	172	6.79	14	59.44	361
16	26.916	92	28.10	351	46.61	27	39.29	226	58.669	132	37.18	182	6.65	0	55.83	372
26	27.008	154	24.59	349	46.88	37	37.03	211	58.801	174	35.36	185	6.65	14	52.11	369
36	27.162		21.10		47.25		34.92		58.975		33.51		6.79		48.42	
Mittl. Ort	27.591		35.50		45.56		31.70		57.854		43.96		11.80		62.98	
sec δ, tg δ	1.441		+1.037		2.339		−2.115		1.003		+0.080		3.268		+3.112	

Tag	667) μ Herculis AR.	Diff.	667) μ Herculis Dekl.	Diff.	671) ξ Draconis AR.	Diff.	671) ξ Draconis Dekl.	Diff.
1929	17h 43m		+27° 45′		17h 52m		+56° 52′	
Jan. 1	38.569	179	32.43	293	15.338	172	51.37	361
11	38.748	218	29.50	278	15.510	242	47.76	342
21	38.966	250	26.72	253	15.752	304	44.34	310
31	39.216	277	24.19	219	16.056	357	41.24	267
Feb. 10	39.493	296	22.00	176	16.413	400	38.57	215
20	39.789	308	20.24	128	16.813	430	36.42	156
März 2	40.097	315	18.96	75	17.243	448	34.86	91
12	40.412	315	18.21	21	17.691	453	33.95	23
22	40.727	310	18.00	33	18.144	447	33.72	43
Apr. 1	41.037	299	18.33	84	18.591	430	34.15	106
11	41.336	284	19.17	130	19.021	401	35.21	164
21	41.620	264	20.47	171	19.422	363	36.85	215
Mai 1	41.884	239	22.18	203	19.785	318	39.00	257
11	42.123	209	24.21	229	20.103	263	41.57	290
21	42.332	176	26.50	245	20.366	204	44.47	313
31	42.508	140	28.95	254	20.570	140	47.60	326
Juni 10	42.648	100	31.49	254	20.710	73	50.86	330
19*)	42.748	58	34.03	248	20.783	5	54.16	323
29	42.806	14	36.51	235	20.788	63	57.39	308
Juli 9	42.820	28	38.86	215	20.725	130	60.47	286
19	42.792	70	41.01	191	20.595	193	63.33	257
29	42.722	109	42.92	163	20.402	250	65.90	222
Aug. 8	42.613	143	44.55	131	20.152	301	68.12	181
18	42.470	173	45.86	95	19.851	343	69.93	136
28	42.297	195	46.81	59	19.508	374	71.29	89
Sept. 7	42.102	209	47.40	20	19.134	395	72.18	39
17	41.893	213	47.60	19	18.739	403	72.57	13
27	41.680	207	47.41	59	18.336	398	72.44	65
Okt. 7	41.473	192	46.82	99	17.938	379	71.79	117
17	41.281	166	45.83	138	17.559	347	70.62	167
27	41.115	133	44.45	176	17.212	302	68.95	216
Nov. 6	40.982	91	42.69	210	16.910	246	66.79	260
16	40.891	45	40.59	240	16.664	180	64.19	299
26	40.846	5	38.19	266	16.484	108	61.20	329
Dez. 6	40.851	56	35.53	284	16.376	31	57.91	352
16	40.907	106	32.69	295	16.345	48	54.39	365
26	41.013	153	29.74	295	16.393	125	50.74	365
36	41.166		26.79		16.518		47.09	
Mittl. Ort	40.710		39.98		18.049		59.81	
sec δ, tg δ	1.130		+0.526		1.830		+1.533	

Tag	675) 35 Draconis AR.	Diff.	675) 35 Draconis Dekl.	Diff.	672) ϑ Herculis AR.	Diff.	672) ϑ Herculis Dekl.	Diff.
1929	17h 52m		+76° 57′		17h 53m		+37° 15′	
Jan. 1	32.35	22	75.57	359	46.811	166	24.45	322
11	32.57	40	71.98	340	46.977	211	21.23	306
21	32.97	57	68.58	308	47.188	251	18.17	279
31	33.54	71	65.50	266	47.439	283	15.38	242
Feb. 10	34.25	84	62.84	213	47.722	308	12.96	196
20	35.09	92	60.71	153	48.030	326	11.00	143
März 2	36.01	97	59.18	89	48.356	335	9.57	85
12	36.98	99	58.29	22	48.691	339	8.72	25
22	37.97	98	58.07	44	49.030	335	8.47	35
Apr. 1	38.95	92	58.51	107	49.365	325	8.82	91
11	39.87	85	59.58	165	49.690	308	9.73	143
21	40.72	75	61.23	217	49.998	286	11.16	189
Mai 1	41.47	62	63.40	258	50.284	259	13.05	227
11	42.09	47	65.98	290	50.543	225	15.32	257
21	42.56	32	68.88	314	50.768	188	17.89	277
31	42.88	15	72.02	326	50.956	146	20.66	288
Juni 10	43.03	1	75.28	329	51.102	102	23.54	290
19*)	43.02	18	78.57	323	51.204	55	26.44	286
29	42.84	34	81.80	308	51.259	7	29.30	272
Juli 9	42.50	50	84.88	286	51.266	41	32.02	252
19	42.00	64	87.74	256	51.225	87	34.54	226
29	41.36	76	90.30	220	51.138	130	36.80	195
Aug. 8	40.60	87	92.50	180	51.008	168	38.75	160
18	39.73	96	94.30	136	50.840	201	40.35	121
28	38.77	103	95.66	89	50.639	227	41.56	79
Sept. 7	37.74	107	96.55	38	50.412	242	42.35	36
17	36.67	108	96.93	14	50.170	248	42.71	9
27	35.59	107	96.79	65	49.922	245	42.62	55
Okt. 7	34.52	104	96.14	117	49.677	230	42.07	100
17	33.48	97	94.97	168	49.447	205	41.07	144
27	32.51	88	93.29	216	49.242	171	39.63	187
Nov. 6	31.63	76	91.13	260	49.071	128	37.76	227
16	30.87	62	88.53	297	48.943	79	35.49	261
26	30.25	45	85.56	329	48.864	27	32.88	289
Dez. 6	29.80	28	82.27	352	48.837	29	29.99	311
16	29.52	9	78.75	363	48.866	84	26.88	323
26	29.43	10	75.12	363	48.950	136	23.65	325
36	29.53		71.49		49.086		20.40	
Mittl. Ort	37.48		84.08		49.052		32.27	
sec δ, tg δ	4.436		+4.322		1.256		+0.761	

*) Bei Stern 671), 675) und 672) lies Juni 20

Tag	676) γ Draconis				673) ν Ophiuchi				677) 67 Ophiuchi				679) γ Sagittarii			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
1929	$17^h\ 54^m$		+51° 29′		$17^h\ 55^m$		−9° 45′		$17^h\ 57^m$		+2° 55′		$18^h\ 1^m$		−30° 25′	
Jan. 1	54.887	165	39.39	354	4.745	193	63.80	102	3.140	180	55.01	174	12.123	218	39.98	26
11	55.052	225	35.85	336	4.938	227	64.82	102	3.320	213	53.27	168	12.341	256	39.72	17
21	55.277	279	32.49	307	5.165	254	65.84	97	3.533	241	51.59	156	12.597	288	39.55	10
31	55.556	325	29.42	264	5.419	275	66.81	88	3.774	263	50.03	139	12.885	312	39.45	4
Feb. 10	55.881	361	26.78	214	5.694	290	67.69	75	4.037	279	48.64	114	13.197	330	39.41	0
20	56.242	386	24.64	156	5.984	301	68.44	58	4.316	290	47.50	86	13.527	343	39.41	3
März 2	56.628	402	23.08	93	6.285	306	69.02	38	4.606	296	46.64	53	13.870	350	39.44	4
12	57.030	408	22.15	27	6.591	307	69.40	18	4.902	298	46.11	20	14.220	352	39.48	6
22	57.438	403	21.88	39	6.898	305	69.58	4	5.200	296	45.91	13	14.572	351	39.54	7
Apr. 1	57.841	389	22.27	100	7.203	299	69.54	24	5.496	289	46.04	46	14.923	345	39.61	7
11	58.230	365	23.27	158	7.502	289	69.30	41	5.785	280	46.50	74	15.268	335	39.68	10
21	58.595	334	24.85	209	7.791	275	68.89	56	6.065	266	47.24	100	15.603	320	39.78	13
Mai 1	58.929	296	26.94	250	8.066	257	68.33	67	6.331	248	48.24	120	15.923	301	39.91	17
11	59.225	250	29.44	283	8.323	235	67.66	74	6.579	225	49.44	134	16.224	277	40.08	23
21	59.475	199	32.27	306	8.558	209	66.92	79	6.804	199	50.78	144	16.501	247	40.31	30
31	59.674	144	35.33	319	8.767	179	66.13	78	7.003	169	52.22	147	16.748	213	40.61	36
Juni 10	59.818	86	38.52	323	8.946	144	65.35	76	7.172	135	53.69	147	16.961	174	40.97	43
20	59.904	26	41.75	317	9.090	106	64.59	70	7.307	97	55.16	142	17.135	131	41.40	50
29	[21] 59.930	35	44.92	303	[21] 9.196	66	63.89	63	[21] 7.404	58	56.58	132	[22] 17.266	85	41.90	54
Juli 9	59.895	93	47.95	282	9.262	26	63.26	55	7.462	18	57.90	121	17.351	38	42.44	57
19	59.802	150	50.77	253	9.288	16	62.71	45	7.480	22	59.11	106	17.389	10	43.01	58
29	59.652	203	53.30	219	9.272	55	62.26	36	7.458	61	60.17	89	17.379	55	43.59	56
Aug. 8	59.449	248	55.49	180	9.217	90	61.90	27	7.397	95	61.06	72	17.324	97	44.15	51
18	59.201	287	57.29	137	9.127	121	61.63	19	7.302	125	61.78	53	17.227	133	44.66	44
28	58.914	317	58.66	91	9.006	145	61.44	10	7.177	148	62.31	34	17.094	162	45.10	33
Sept. 7	58.597	336	59.57	41	8.861	160	61.34	2	7.029	164	62.65	15	16.932	180	45.43	22
17	58.261	344	59.98	9	8.701	167	61.32	5	6.865	169	62.80	5	16.752	189	45.65	8
27	57.917	340	59.89	60	8.534	163	61.37	13	6.696	166	62.75	25	16.563	185	45.73	6
Okt. 7	57.577	323	59.29	110	8.371	149	61.50	21	6.530	153	62.50	46	16.378	171	45.67	19
17	57.254	293	58.19	161	8.222	125	61.71	30	6.377	131	62.04	66	16.207	144	45.48	30
27	56.961	254	56.58	208	8.097	93	62.01	40	6.246	100	61.38	86	16.063	108	45.18	39
Nov. 6	56.707	204	54.50	252	8.004	53	62.41	50	6.146	62	60.52	107	15.955	64	44.79	46
16	56.503	146	51.98	289	7.951	9	62.91	62	6.084	19	59.45	126	15.891	13	44.33	48
26	56.357	81	49.09	321	7.942	38	63.53	73	6.065	26	58.19	143	15.878	40	43.85	48
Dez. 6	56.276	12	45.88	344	7.980	85	64.26	84	6.091	72	56.76	157	15.918	93	43.37	45
16	56.264	57	42.44	357	8.065	131	65.10	93	6.163	117	55.19	166	16.011	146	42.92	39
26	56.321	125	38.87	358	8.196	173	66.03	98	6.280	159	53.53	172	16.157	193	42.53	33
36	56.446		35.29		8.369		67.01		6.439		51.81		16.350		42.20	
Mittl. Ort	57.412		47.61		7.016		58.74		5.312		60.98		14.748		35.99	
sec δ, tg δ	1.606		+1.257		1.015		−0.172		1.001		+0.051		1.160		−0.587	

Tag	680) 72 Ophiuchi AR.		680) Dekl.		681) o Herculis AR.		681) Dekl.		682) μ Sagittarii AR.		682) Dekl.		688) η Serpentis AR.		688) Dekl.	
1929	$18^h\,3^m$		$+9°\,32'$		$18^h\,4^m$		$+28°\,44'$		$18^h\,9^m$		$-21°\,4'$		$18^h\,17^m$		$-2°\,55'$	
Jan. 1	56.828	168	62.36	206	44.162	156	58.31	293	28.566	194	49.52	27	35.899	164	13.35	135
11	56.996	204	60.30	199	44.318	197	55.38	280	28.760	230	49.79	31	36.063	200	14.70	133
21	57.200	232	58.31	184	44.515	233	52.58	257	28.990	260	50.10	32	36.263	228	16.03	124
31	57.432	256	56.47	163	44.748	262	50.01	226	29.250	283	50.42	31	36.491	251	17.27	111
Feb. 10	57.688	273	54.84	133	45.010	285	47.75	185	29.533	301	50.73	26	36.742	270	18.38	91
20	57.961	286	53.51	100	45.295	301	45.90	137	29.834	314	50.99	20	37.012	284	19.29	69
März 2	58.247	294	52.51	62	45.596	311	44.53	85	30.148	322	51.19	13	37.296	293	19.98	43
12	58.541	297	51.89	22	45.907	316	43.68	31	30.470	326	51.32	4	37.589	297	20.41	14
22	58.838	296	51.67	18	46.223	316	43.37	24	30.796	325	51.36	6	37.886	299	20.55	13
Apr. 1	59.134	291	51.85	56	46.539	309	43.61	77	31.121	321	51.30	15	38.185	296	20.42	39
11	59.425	281	52.41	90	46.848	297	44.38	125	31.442	314	51.15	21	38.481	290	20.03	64
21	59.706	268	53.31	120	47.145	279	45.63	168	31.756	301	50.94	25	38.771	279	19.39	85
Mai 1	59.974	250	54.51	146	47.424	257	47.31	204	32.057	284	50.69	28	39.050	264	18.54	101
11	60.224	227	55.97	164	47.681	229	49.35	231	32.341	263	50.41	28	39.314	244	17.53	113
21	60.451	201	57.61	176	47.910	196	51.66	251	32.604	237	50.13	26	39.558	219	16.40	119
31	60.652	170	59.37	182	48.106	161	54.17	262	32.841	205	49.87	21	39.777	190	15.21	122
Juni 10	60.822	135	61.19	184	48.267	121	56.79	266	33.046	170	49.66	16	39.967	157	13.99	120
20	60.957	97	63.03	178	48.388	79	59.45	261	33.216	130	49.50	8	40.124	120	12.79	115
29	61.054	58	64.81	168	48.467	34	62.06	250	33.346	87	49.42	1	40.244	80	11.64	106
Juli 9	61.112	17	66.49	155	48.501	11	64.56	233	33.433	44	49.41	4	40.324	39	10.58	95
19	61.129	24	68.04	138	48.490	54	66.89	211	33.477	1	49.45	9	40.363	3	9.63	82
29	61.105	62	69.42	118	48.436	96	69.00	182	33.476	44	49.54	14	40.360	42	8.81	68
Aug. 8	61.043	98	70.60	96	48.340	133	70.82	152	33.432	84	49.68	16	40.318	80	8.13	54
18	60.945	129	71.56	73	48.207	165	72.34	117	33.348	118	49.84	17	40.238	113	7.59	39
28	60.816	152	72.29	49	48.042	191	73.51	80	33.230	145	50.01	16	40.125	139	7.20	24
Sept. 7	60.664	168	72.78	24	47.851	208	74.31	42	33.085	164	50.17	13	39.986	157	6.96	10
17	60.496	176	73.02	2	47.643	216	74.73	2	32.921	174	50.30	10	39.829	167	6.86	4
27	60.320	174	73.00	28	47.427	214	74.75	39	32.747	172	50.40	5	39.662	167	6.90	19
Okt. 7	60.146	162	72.72	54	47.213	201	74.36	80	32.575	159	50.45	2	39.495	156	7.09	34
17	59.984	140	72.18	80	47.012	180	73.56	120	32.416	137	50.47	1	39.339	137	7.43	49
27	59.844	111	71.38	106	46.832	149	72.36	159	32.279	104	50.46	2	39.202	109	7.92	63
Nov. 6	59.733	74	70.32	131	46.683	110	70.77	195	32.175	64	50.44	2	39.093	73	8.55	79
16	59.659	32	69.01	154	46.573	66	68.82	228	32.111	19	50.42	1	39.020	32	9.34	94
26	59.627	13	67.47	173	46.507	18	66.54	255	32.092	30	50.43	5	38.988	12	10.28	107
Dez. 6	59.640	59	65.74	190	46.489	32	63.99	276	32.122	79	50.48	11	39.000	57	11.35	119
16	59.699	104	63.84	201	46.521	83	61.23	290	32.201	127	50.59	17	39.057	102	12.54	127
26	59.803	146	61.83	205	46.604	130	58.33	293	32.328	171	50.76	22	39.159	143	13.81	133
36	59.949		59.78		46.734		55.40		32.499		50.98		39.302		15.14	
Mittl. Ort	58.982		68.81		46.349		65.56		31.001		44.48		38.124		7.17	
sec δ, tg δ	1.014		+0.168		1.141		+0.549		1.072		−0.385		1.001		−0.051	

Tag	689) ε Sagittarii AR.		689) Dekl.		690) 109 Herculis AR.		690) Dekl.		691) α Telescopii AR.		691) Dekl.		695) χ Draconis AR.		695) Dekl.	
1929	18h 19m		−34° 25′		18h 20m		+21° 43′		18h 21m		−46° 0′		18h 22m		+72° 41′	
Jan. 1	24.824	206	16.39	59	38.144	143	63.22	262	39.387	231	38.12	129	15.98	10	62.11	366
11	25.030	247	15.80	52	38.287	183	60.60	253	39.618	282	36.83	119	16.08	25	58.45	354
21	25.277	282	15.28	45	38.470	216	58.07	235	39.900	324	35.64	107	16.33	37	54.91	330
31	25.559	311	14.83	37	38.686	245	55.72	208	40.224	359	34.57	92	16.70	49	51.61	293
Feb. 10	25.870	332	14.46	32	38.931	268	53.64	172	40.583	386	33.65	76	17.19	60	48.68	246
20	26.202	349	14.14	25	39.199	284	51.92	130	40.969	406	32.89	60	17.79	67	46.22	191
März 2	26.551	359	13.89	20	39.483	297	50.62	84	41.375	420	32.29	44	18.46	73	44.31	128
12	26.910	366	13.69	16	39.780	304	49.78	35	41.795	428	31.85	28	19.19	76	43.03	62
22	27.276	367	13.53	10	40.084	305	49.43	15	42.223	430	31.57	10	19.95	77	42.41	5
Apr. 1	27.643	364	13.43	5	40.389	303	49.58	64	42.653	427	31.47	6	20.72	75	42.46	70
11	28.007	356	13.38	2	40.692	294	50.22	108	43.080	417	31.53	24	21.47	70	43.16	132
21	28.363	344	13.40	9	40.986	281	51.30	147	43.497	403	31.77	41	22.17	65	44.48	188
Mai 1	28.707	327	13.49	18	41.267	263	52.77	182	43.900	382	32.18	59	22.82	56	46.36	235
11	29.034	303	13.67	28	41.530	240	54.59	207	44.282	353	32.77	77	23.38	46	48.71	275
21	29.337	275	13.95	38	41.770	211	56.66	226	44.635	318	33.54	93	23.84	36	51.46	304
31	29.612	239	14.33	48	41.981	179	58.92	237	44.953	277	34.47	109	24.20	24	54.50	325
Juni 10	29.851	200	14.81	58	42.160	142	61.29	242	45.230	230	35.56	121	24.44	11	57.75	334
20	30.051	156	15.39	67	42.302	103	63.71	239	45.460	177	36.77	131	24.55	2	61.09	336
29	30.207	107	16.06	74	42.405	60	66.10	229	45.637	121	38.08	138	24.53	14	64.45	327
Juli 9	30.314	57	16.80	78	42.465	16	68.39	214	45.758	62	39.46	141	24.39	26	67.72	311
19	30.371	7	17.58	80	42.481	27	70.53	195	45.820	1	40.87	138	24.13	38	70.83	287
29	30.378	42	18.38	78	42.454	68	72.48	170	45.821	56	42.25	131	23.75	49	73.70	256
Aug. 8	30.336	89	19.16	73	42.386	106	74.18	143	45.765	110	43.56	119	23.26	58	76.26	221
18	30.247	129	19.89	64	42.280	139	75.61	113	45.655	158	44.75	102	22.68	67	78.47	179
28	30.118	161	20.53	52	42.141	166	76.74	81	45.497	196	45.77	81	22.01	72	80.26	133
Sept. 7	29.957	185	21.05	37	41.975	185	77.55	47	45.301	224	46.58	56	21.29	77	81.59	85
17	29.772	196	21.42	21	41.790	195	78.02	11	45.077	239	47.14	28	20.52	80	82.44	34
27	29.576	197	21.63	3	41.595	196	78.13	24	44.838	240	47.42	2	19.72	80	82.78	19
Okt. 7	29.379	185	21.66	15	41.399	187	77.89	60	44.598	227	47.40	31	18.92	79	82.59	73
17	29.194	161	21.51	32	41.212	167	77.29	96	44.371	200	47.09	59	18.13	75	81.86	126
27	29.033	128	21.19	46	41.045	141	76.33	131	44.171	161	46.50	84	17.38	70	80.60	177
Nov. 6	28.905	83	20.73	59	40.904	104	75.02	164	44.010	110	45.66	106	16.68	61	78.83	226
16	28.822	33	20.14	66	40.800	64	73.38	195	43.900	52	44.60	123	16.07	51	76.57	270
26	28.789	20	19.48	71	40.736	19	71.43	220	43.848	11	43.37	134	15.56	39	73.87	307
Dez. 6	28.809	75	18.77	72	40.717	28	69.23	241	43.859	75	42.03	140	15.17	27	70.80	336
16	28.884	129	18.05	70	40.745	75	66.82	255	43.934	139	40.63	140	14.90	13	67.44	357
26	29.013	180	17.35	64	40.820	119	64.27	260	44.073	200	39.23	136	14.77	1	63.87	365
36	29.193		16.71		40.939		61.67		44.273		37.87		14.78		60.22	
Mittl. Ort	27.554		11.33		40.319		70.05		42.544		33.32		20.31		68.85	
sec δ, tg δ	1.212		−0.685		1.077		+0.399		1.440		−1.036		3.363		+3.211	

Tag	694) *b* Draconis AR.		Dekl.		699) α Lyrae AR.		Dekl.	
1929	18h 22m		+58° 45′		18h 34m		+38° 42′	
Jan. 1	49.529	115	25.86	363	29.721	116	53.21	321
11	49.644	192	22.23	350	29.837	165	50.00	312
21	49.836	263	18.73	326	30.002	208	46.88	291
31	50.099	326	15.47	290	30.210	247	43.97	261
Feb. 10	50.425	378	12.57	242	30.457	280	41.36	219
20	50.803	420	10.15	186	30.737	305	39.17	170
März 2	51.223	450	8.29	124	31.042	325	37.47	115
12	51.673	466	7.05	58	31.367	337	36.32	56
22	52.139	470	6.47	9	31.704	342	35.76	4
Apr. 1	52.609	461	6.56	74	32.046	340	35.80	63
11	53.070	441	7.30	135	32.386	332	36.43	119
21	53.511	408	8.65	190	32.718	316	37.62	169
Mai 1	53.919	366	10.55	238	33.034	295	39.31	213
11	54.285	315	12.93	277	33.329	265	41.44	248
21	54.600	257	15.70	306	33.594	231	43.92	276
31	54.857	191	18.76	325	33.825	192	46.68	293
Juni 10	55.048	122	22.01	335	34.017	147	49.61	302
20	55.170	49	25.36	336	34.164	99	52.63	303
29*)	55.219	24	28.72	327	34.263	50	55.66	296
Juli 9	55.195	97	31.99	310	34.313	1	58.62	281
19	55.098	167	35.09	286	34.312	51	61.43	260
29	54.931	232	37.95	255	34.261	99	64.03	233
Aug. 8	54.699	291	40.50	219	34.162	144	66.36	201
18	54.408	341	42.69	177	34.018	182	68.37	165
28	54.067	382	44.46	132	33.836	214	70.02	124
Sept. 7	53.685	411	45.78	83	33.622	238	71.26	82
17	53.274	427	46.61	32	33.384	252	72.08	38
27	52.847	431	46.93	20	33.132	255	72.46	9
Okt. 7	52.416	419	46.73	73	32.877	248	72.37	55
17	51.997	394	46.00	127	32.629	230	71.82	102
27	51.603	356	44.73	177	32.399	204	70.80	147
Nov. 6	51.247	304	42.96	225	32.195	166	69.33	191
16	50.943	243	40.71	269	32.029	124	67.42	229
26	50.700	173	38.02	306	31.905	74	65.13	264
Dez. 6	50.527	95	34.96	335	31.831	21	62.49	291
16	50.432	16	31.61	354	31.810	32	59.58	310
26	50.416	67	28.07	361	31.842	85	56.48	319
36	50.483		24.46		31.927		53.29	
Mittl. Ort	52.440		32.75		32.058		59.78	
sec δ, tg δ	1.928		+1.649		1.282		+0.802	

Tag	698) ζ Pavonis AR.		Dekl.		703) 110 Herculis AR.		Dekl.	
1929	18h 34m		−71° 29′		18h 42m		+20° 28′	
Jan. 1	38.73	36	36.35	263	34.145	121	31.11	251
11	39.09	49	33.72	250	34.266	161	28.60	244
21	39.58	59	31.22	229	34.427	196	26.16	230
31	40.17	68	28.93	203	34.623	225	23.86	205
Feb. 10	40.85	75	26.90	172	34.848	251	21.81	172
20	41.60	81	25.18	138	35.099	271	20.09	134
März 2	42.41	85	23.80	102	35.370	287	18.75	89
12	43.26	87	22.78	64	35.657	297	17.86	41
22	44.13	88	22.14	26	35.954	302	17.45	7
Apr. 1	45.01	88	21.88	13	36.256	304	17.52	55
11	45.89	86	22.01	51	36.560	299	18.07	100
21	46.75	83	22.52	89	36.859	290	19.07	140
Mai 1	47.58	78	23.41	124	37.149	275	20.47	173
11	48.36	71	24.65	158	37.424	255	22.20	201
21	49.07	63	26.23	187	37.679	229	24.21	222
31	49.70	55	28.10	213	37.908	199	26.43	235
Juni 10	50.25	44	30.23	233	38.107	163	28.78	241
20	50.69	32	32.56	249	38.270	124	31.19	239
29*)	51.01	21	35.05	256	38.394	82	33.58	231
Juli 9	51.22	7	37.61	258	38.476	39	35.89	219
19	51.29	5	40.19	250	38.515	6	38.08	201
29	51.24	16	42.69	236	38.509	49	40.09	178
Aug. 8	51.08	29	45.05	212	38.460	88	41.87	152
18	50.79	39	47.17	182	38.372	124	43.39	124
28	50.40	47	48.99	145	38.248	154	44.63	93
Sept. 7	49.93	53	50.44	101	38.094	176	45.56	60
17	49.40	57	51.45	53	37.918	189	46.16	26
27	48.83	59	51.98	3	37.729	193	46.42	9
Okt. 7	48.24	57	52.01	48	37.536	188	46.33	43
17	47.67	52	51.53	98	37.348	173	45.90	79
27	47.15	45	50.55	145	37.175	149	45.11	113
Nov. 6	46.70	35	49.10	186	37.026	116	43.98	146
16	46.35	24	47.24	221	36.910	79	42.52	176
26	46.11	11	45.03	247	36.831	36	40.76	203
Dez. 6	46.00	2	42.56	264	36.795	9	38.73	225
16	46.02	16	39.92	271	36.804	53	36.48	240
26	46.18	30	37.21	271	36.857	97	34.08	248
36	46.48		34.50		36.954		31.60	
Mittl. Ort	44.82		31.09		36.333		37.72	
sec δ, tg δ	3.150		−2.987		1.067		+0.373	

*) Bei Stern 699), 698) und 703) lies Juni 30

Tag	704) λ Pavonis				705) β Lyrae				707) ο Draconis				706) σ Sagittarii			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
1929	18h 45m		−62° 16′		18h 47m		+33° 16′		18h 50m		+59° 17′		18h 50m		−26° 23′	
	s		″		s		″		s		″		s		″	
Jan. 1	34.20	26	23.00	228	25.221	104	39.19	301	6.287	64	58.69	359	49.284	158	18.92	23
11	34.46	34	20.72	219	25.325	150	36.18	295	6.351	142	55.10	354	49.442	198	18.69	22
21	34.80	40	18.53	203	25.475	191	33.23	277	6.493	217	51.56	335	49.640	232	18.47	22
31	35.20	47	16.50	184	25.666	228	30.46	249	6.710	286	48.21	305	49.872	261	18.25	23
Feb. 10	35.67	52	14.66	160	25.894	258	27.97	212	6.996	346	45.16	263	50.133	286	18.02	25
20	36.19	56	13.06	134	26.152	284	25.85	167	7.342	395	42.53	211	50.419	305	17.77	27
März 2	36.75	59	11.72	105	26.436	304	24.18	116	7.737	435	40.42	153	50.724	319	17.50	31
12	37.34	60	10.67	75	26.740	317	23.02	59	8.172	460	38.89	89	51.043	330	17.19	35
22	37.94	62	9.92	44	27.057	324	22.43	3	8.632	474	38.00	22	51.373	337	16.84	39
Apr. 1	38.56	62	9.48	12	27.381	326	22.40	54	9.106	474	37.78	43	51.710	340	16.45	42
11	39.18	61	9.36	20	27.707	321	22.94	106	9.580	462	38.21	107	52.050	339	16.03	43
21	39.79	59	9.56	52	28.028	309	24.00	156	10.042	438	39.28	165	52.389	332	15.60	41
Mai 1	40.38	57	10.08	84	28.337	292	25.56	198	10.480	401	40.93	216	52.721	320	15.19	38
11	40.95	52	10.92	114	28.629	268	27.54	232	10.881	356	43.09	261	53.041	303	14.81	32
21	41.47	47	12.06	141	28.897	238	29.86	259	11.237	301	45.70	294	53.344	281	14.49	24
31	41.94	42	13.47	166	29.135	203	32.45	278	11.538	238	48.64	320	53.625	251	14.25	15
Juni 10	42.36	35	15.13	187	29.338	163	35.23	287	11.776	169	51.84	336	53.876	216	14.10	4
20	42.71	27	17.00	203	29.501	119	38.10	289	11.945	97	55.20	341	54.092	177	14.06	8
30	42.98	19	19.03	215	29.620	72	40.99	283	12.042	21	58.61	338	54.269	133	14.14	18
Juli 9	[3] 43.17	11	21.18	219	[4] 29.692	23	43.82	271	[5] 12.063	53	61.99	328	[5] 54.402	86	14.32	28
19	43.28	1	23.37	216	29.715	24	46.53	251	12.010	128	65.27	308	54.488	39	14.60	37
29	43.29	8	25.53	208	29.691	71	49.04	226	11.882	197	68.35	282	54.527	10	14.97	42
Aug. 8	43.21	15	27.61	191	29.620	115	51.30	198	11.685	262	71.17	249	54.517	55	15.39	46
18	43.06	23	29.52	168	29.505	153	53.28	163	11.423	319	73.66	211	54.462	96	15.85	47
28	42.83	29	31.20	137	29.352	186	54.91	126	11.104	365	75.77	169	54.366	130	16.32	44
Sept. 7	42.54	34	32.57	102	29.166	210	56.17	87	10.739	402	77.46	122	54.236	157	16.76	39
17	42.20	37	33.59	62	28.956	225	57.04	46	10.337	426	78.68	72	54.079	174	17.15	31
27	41.83	38	34.21	18	28.731	231	57.50	2	9.911	436	79.40	21	53.905	181	17.46	22
Okt. 7	41.45	38	34.39	26	28.500	226	57.52	41	9.475	433	79.61	33	53.724	174	17.68	12
17	41.07	34	34.13	70	28.274	212	57.11	85	9.042	416	79.28	87	53.550	159	17.80	2
27	40.73	29	33.43	112	28.062	187	56.26	128	8.626	384	78.41	140	53.391	132	17.82	7
Nov. 6	40.44	23	32.31	149	27.875	154	54.98	170	8.242	339	77.01	191	53.259	97	17.75	15
16	40.21	16	30.82	180	27.721	115	53.28	207	7.903	284	75.10	238	53.162	55	17.60	21
26	40.05	7	29.02	205	27.606	70	51.21	240	7.619	219	72.72	280	53.107	9	17.39	25
Dez. 6	39.98	3	26.97	222	27.536	22	48.81	268	7.400	145	69.92	314	53.098	40	17.14	27
16	40.01	11	24.75	232	27.514	28	46.13	287	7.255	68	66.78	340	53.138	88	16.87	26
26	40.12	21	22.43	233	27.542	77	43.26	297	7.187	14	63.38	353	53.226	134	16.61	27
36	40.33		20.10		27.619		40.29		7.201		59.85		53.360		16.34	
Mittl. Ort	38.55		16.41		27.500		45.44		9.301		64.06		51.798		11.64	
sec δ, tg δ	2.149		−1.902		1.196		+0.656		1.959		+1.684		1.116		−0.496	

Tag	709) ϑ Serpentis pr. AR.		Dekl.		708) λ Telescopii AR.		Dekl.		711) *R* Lyrae AR.		Dekl.		713) γ Lyrae AR.		Dekl.	
1929	$18^h 52^m$		+4° 6′		$18^h 52^m$		−53° 1′		$18^h 53^m$		+43° 50′		$18^h 56^m$		+32° 35′	
Jan. 1	39.198	125	28.47	162	43.641	207	66.83	184	8.047	86	60.22	332	14.950	96	22.04	296
11	39.323	162	26.85	159	43.848	268	64.99	177	8.133	139	56.90	326	15.046	140	19.08	291
21	39.485	193	25.26	149	44.116	322	63.22	167	8.272	189	53.64	308	15.186	181	16.17	275
31	39.678	221	23.77	132	44.438	367	61.55	154	8.461	235	50.56	280	15.367	218	13.42	249
Feb. 10	39.899	244	22.45	109	44.805	406	60.01	137	8.696	274	47.76	241	15.585	250	10.93	214
20	40.143	263	21.36	82	45.211	437	58.64	118	8.970	306	45.35	192	15.835	276	8.79	169
März 2	40.406	277	20.54	50	45.648	460	57.46	98	9.276	332	43.43	137	16.111	297	7.10	118
12	40.683	288	20.04	16	46.108	477	56.48	76	9.608	349	42.06	76	16.408	313	5.92	64
22	40.971	295	19.88	19	46.585	486	55.72	53	9.957	360	41.30	15	16.721	321	5.28	8
Apr. 1	41.266	298	20.07	52	47.071	490	55.19	29	10.317	362	41.15	47	17.042	325	5.20	48
11	41.564	296	20.59	83	47.561	486	54.90	4	10.679	356	41.62	106	17.367	322	5.68	101
21	41.860	290	21.42	111	48.047	476	54.86	21	11.035	343	42.68	160	17.689	312	6.69	150
Mai 1	42.150	279	22.53	134	48.523	456	55.07	47	11.378	321	44.28	207	18.001	296	8.19	193
11	42.429	263	23.87	151	48.979	429	55.54	72	11.699	292	46.35	248	18.297	274	10.12	228
21	42.692	241	25.38	162	49.408	394	56.26	96	11.991	257	48.83	279	18.571	245	12.40	256
31	42.933	215	27.00	170	49.802	350	57.22	118	12.248	215	51.62	301	18.816	211	14.96	275
Juni 10	43.148	182	28.70	169	50.152	298	58.40	138	12.463	167	54.63	315	19.027	172	17.71	285
20	43.330	147	30.39	166	50.450	240	59.78	155	12.630	117	57.78	319	19.199	129	20.56	289
30	43.477	107	32.05	157	50.690	175	61.33	168	12.747	63	60.97	315	19.328	82	23.45	284
Juli 9	43.584	65	33.62	145	50.865	107	63.01	174	12.810	8	64.12	303	19.410	35	26.29	272
19	43.649	22	35.07	130	50.972	38	64.75	176	12.818	46	67.15	285	19.445	14	29.01	254
29	43.671	20	36.37	113	51.010	32	66.51	172	12.772	100	70.00	259	19.431	61	31.55	231
Aug. 8	43.651	59	37.50	94	50.978	98	68.23	162	12.672	149	72.59	229	19.370	105	33.86	201
18	43.592	96	38.44	74	50.880	158	69.85	145	12.523	192	74.88	192	19.265	145	35.87	169
28	43.496	126	39.18	53	50.722	208	71.30	122	12.331	229	76.80	153	19.120	178	37.56	133
Sept. 7	43.370	149	39.71	32	50.514	247	72.52	94	12.102	257	78.33	109	18.942	204	38.89	94
17	43.221	164	40.03	11	50.267	274	73.46	62	11.845	275	79.42	63	18.738	220	39.83	54
27	43.057	169	40.14	10	49.993	283	74.08	27	11.570	283	80.05	15	18.518	227	40.37	11
Okt. 7	42.888	165	40.04	30	49.710	278	74.35	10	11.287	279	80.20	33	18.291	224	40.48	33
17	42.723	151	39.74	52	49.432	257	74.25	46	11.008	265	79.87	83	18.067	211	40.15	76
27	42.572	128	39.22	72	49.175	220	73.79	81	10.743	241	79.04	132	17.856	189	39.39	119
Nov. 6	42.444	98	38.50	93	48.955	170	72.98	112	10.502	206	77.72	178	17.667	157	38.20	160
16	42.346	62	37.57	112	48.785	111	71.86	139	10.296	163	75.94	222	17.510	119	36.60	198
26	42.284	22	36.45	128	48.674	43	70.47	161	10.133	114	73.72	259	17.391	76	34.62	231
Dez. 6	42.262	20	35.17	143	48.631	28	68.86	176	10.019	61	71.13	291	17.315	29	32.31	260
16	42.282	63	33.74	154	48.659	99	67.10	184	9.958	4	68.22	314	17.286	20	29.71	280
26	42.345	104	32.20	159	48.758	169	65.26	187	9.954	52	65.08	326	17.306	68	26.91	292
36	42.449		30.61		48.927		63.39		10.006		61.82		17.374		23.99	
Mittl. Ort	41.389		35.39		47.140		59.44		10.501		65.95		17.228		28.06	
sec δ, tg δ	1.003		+0.072		1.663		−1.329		1.387		+0.961		1.187		+0.639	

Tag	716) ζ Aquilae AR.		Dekl.		717) λ Aquilae AR.		Dekl.		718) α Coron. austr. AR.		Dekl.		720) π Sagittarii AR.		Dekl.	
1929	$19^h\ 2^m$		$+13°\ 45'$		$19^h\ 2^m$		$-4°\ 59'$		$19^h\ 4^m$		$-38°\ 0'$		$19^h\ 5^m$		$-21°\ 8'$	
Jan. 1	6.607	108	17.24	211	26.638	124	32.63	106	35.808	158	68.86	101	30.125	137	24.73	4
11	6.715	145	15.13	208	26.762	160	33.69	104	35.966	205	67.85	99	30.262	175	24.77	3
21	6.860	179	13.05	196	26.922	192	34.73	96	36.171	245	66.86	97	30.437	209	24.80	1
31	7.039	209	11.09	176	27.114	219	35.69	84	36.416	280	65.89	92	30.646	238	24.81	4
Feb. 10	7.248	235	9.33	148	27.333	243	36.53	67	36.696	309	64.97	87	30.884	263	24.77	10
20	7.483	256	7.85	115	27.576	262	37.20	46	37.005	334	64.10	82	31.147	282	24.67	18
März 2	7.739	273	6.70	76	27.838	278	37.66	23	37.339	353	63.28	75	31.429	299	24.49	28
12	8.012	286	5.94	35	28.116	289	37.89	3	37.692	367	62.53	68	31.728	313	24.21	38
22	8.298	295	5.59	8	28.405	298	37.86	29	38.059	378	61.85	60	32.041	321	23.83	46
Apr. 1	8.593	299	5.67	51	28.703	303	37.57	53	38.437	383	61.25	51	32.362	326	23.37	55
11	8.892	299	6.18	91	29.006	303	37.04	76	38.820	384	60.74	40	32.688	327	22.82	61
21	9.191	293	7.09	126	29.309	298	36.28	95	39.204	378	60.34	27	33.015	324	22.21	65
Mai 1	9.484	283	8.35	157	29.607	289	35.33	111	39.582	368	60.07	13	33.339	315	21.56	66
11	9.767	266	9.92	182	29.896	275	34.22	121	39.950	350	59.94	3	33.654	300	20.90	63
21	10.033	244	11.74	200	30.171	255	33.01	128	40.300	325	59.97	19	33.954	280	20.27	58
31	10.277	217	13.74	211	30.426	229	31.73	129	40.625	293	60.16	36	34.234	253	19.69	50
Juni 10	10.494	185	15.85	217	30.655	199	30.44	126	40.918	256	60.52	53	34.487	221	19.19	41
20	10.679	147	18.02	215	30.854	163	29.18	120	41.174	211	61.05	68	34.708	184	18.78	30
30	10.826	107	20.17	208	31.017	124	27.98	110	41.385	163	61.73	82	34.892	142	18.48	17
Juli 9	10.933	64	22.25	197	31.141	81	26.88	99	41.548	110	62.55	92	35.034	97	18.31	6
19	10.997	21	24.22	180	31.222	38	25.89	84	41.658	55	63.47	100	35.131	50	18.25	5
29	11.018	22	26.02	161	31.260	5	25.05	70	41.713	0	64.47	104	35.181	4	18.30	15
Aug. 8	10.996	63	27.63	137	31.255	46	24.35	55	41.713	52	65.51	103	35.185	41	18.45	23
18	10.933	100	29.00	113	31.209	84	23.80	40	41.661	100	66.54	97	35.144	82	18.68	27
28	10.833	132	30.13	87	31.125	116	23.40	25	41.561	141	67.51	87	35.062	117	18.95	31
Sept. 7	10.701	156	31.00	58	31.009	140	23.15	12	41.420	174	68.38	73	34.945	145	19.26	31
17	10.545	172	31.58	30	30.869	157	23.03	2	41.246	196	69.11	55	34.800	163	19.57	30
27	10.373	180	31.88	0	30.712	165	23.05	14	41.050	206	69.66	35	34.637	171	19.87	26
Okt. 7	10.193	177	31.88	29	30.547	161	23.19	26	40.844	203	70.01	13	34.466	169	20.13	21
17	10.016	164	31.59	59	30.386	149	23.45	39	40.641	188	70.14	10	34.297	156	20.34	17
27	9.852	143	31.00	88	30.237	127	23.84	50	40.453	162	70.04	32	34.141	133	20.51	12
Nov. 6	9.709	115	30.12	116	30.110	97	24.34	62	40.291	125	69.72	51	34.008	101	20.63	7
16	9.594	80	28.96	142	30.013	62	24.96	73	40.166	80	69.21	69	33.907	63	20.70	5
26	9.514	41	27.54	165	29.951	23	25.69	83	40.086	29	68.52	83	33.844	21	20.75	3
Dez. 6	9.473	1	25.89	186	29.928	20	26.52	93	40.057	24	67.69	93	33.823	24	20.78	3
16	9.474	43	24.03	200	29.948	62	27.45	100	40.081	78	66.76	99	33.847	70	20.81	2
26	9.517	85	22.03	207	30.010	102	28.45	103	40.159	131	65.77	102	33.917	114	20.83	2
36	9.602		19.96		30.112		29.48		40.290		64.75		34.031		20.85	
Mittl. Ort	8.784		23.90		28.872		25.26		38.589		60.55		32.531		16.73	
sec δ, tg δ	1.030		+0.245		1.004		−0.087		1.269		−0.782		1.072		−0.387	

Tag	723) δ Draconis AR.		723) δ Draconis Dekl.		724) ϑ Lyrae AR.		724) ϑ Lyrae Dekl.		725) ω Aquilae AR.		725) ω Aquilae Dekl.		726) κ Cygni AR.		726) κ Cygni Dekl.	
1929	19h 12m		+67° 31′		19h 13m		+37° 59′		19h 14m		+11° 27′		19h 15m		+53° 13′	
Jan. 1	28.87	2	68.01	356	51.826	68	77.51	308	26.849	98	51.36	195	25.011	35	68.16	343
11	28.85	9	64.45	357	51.894	116	74.43	307	26.947	135	49.41	193	25.046	101	64.73	344
21	28.94	19	60.88	345	52.010	161	71.36	294	27.082	168	47.48	182	25.147	165	61.29	331
31	29.13	30	57.43	321	52.171	204	68.42	269	27.250	199	45.66	163	25.312	225	57.98	307
Feb. 10	29.43	38	54.22	285	52.375	241	65.73	235	27.449	225	44.03	138	25.537	277	54.91	270
20	29.81	46	51.37	237	52.616	272	63.38	192	27.674	247	42.65	107	25.814	324	52.21	223
März 2	30.27	52	49.00	181	52.888	299	61.46	140	27.921	266	41.58	71	26.138	362	49.98	169
12	30.79	58	47.19	120	53.187	319	60.06	84	28.187	281	40.87	31	26.500	391	48.29	109
22	31.37	60	45.99	54	53.506	333	59.22	26	28.468	291	40.56	10	26.891	410	47.20	44
Apr. 1	31.97	60	45.45	12	53.839	340	58.96	33	28.759	298	40.66	50	27.301	417	46.76	20
11	32.57	60	45.57	78	54.179	340	59.29	90	29.057	300	41.16	88	27.718	416	46.96	84
21	33.17	58	46.35	138	54.519	332	60.19	143	29.357	297	42.04	123	28.134	403	47.80	142
Mai 1	33.75	53	47.73	194	54.851	317	61.62	190	29.654	287	43.27	152	28.537	381	49.22	195
11	34.28	47	49.67	242	55.168	296	63.52	229	29.941	274	44.79	175	28.918	348	51.17	242
21	34.75	40	52.09	281	55.464	267	65.81	262	30.215	253	46.54	193	29.266	307	53.59	279
31	35.15	33	54.90	312	55.731	232	68.43	286	30.468	227	48.47	205	29.573	258	56.38	308
Juni 10	35.48	23	58.02	334	55.963	190	71.29	300	30.695	196	50.52	209	29.831	203	59.46	327
20	35.71	13	61.36	345	56.153	145	74.29	307	30.891	161	52.61	208	30.034	143	62.73	338
30	35.84	4	64.81	348	56.298	96	77.36	306	31.052	121	54.69	201	30.177	78	66.11	339
Juli 10	35.88	6	68.29	342	56.394	45	80.42	297	31.173	78	56.70	190	30.255	13	69.50	332
19	[10] 35.82	16	71.71	329	[11] 56.439	7	83.39	281	[11] 31.251	34	58.60	174	[11] 30.268	53	72.82	318
29	35.66	26	75.00	307	56.432	57	86.20	258	31.285	9	60.34	156	30.215	116	76.00	295
Aug. 8	35.40	34	78.07	279	56.375	105	88.78	231	31.276	50	61.90	135	30.099	175	78.95	267
18	35.06	42	80.86	244	56.270	149	91.09	198	31.226	89	63.25	110	29.924	229	81.62	232
28	34.64	49	83.30	204	56.121	186	93.07	162	31.137	122	64.35	85	29.695	276	83.94	193
Sept. 7	34.15	54	85.34	160	55.935	215	94.69	122	31.015	147	65.20	59	29.419	312	85.87	149
17	33.61	57	86.94	112	55.720	236	95.91	79	30.868	165	65.79	32	29.107	338	87.36	102
27	33.04	60	88.06	60	55.484	247	96.70	34	30.703	173	66.11	5	28.769	353	88.38	53
Okt. 7	32.44	61	88.66	7	55.237	247	97.04	12	30.530	174	66.16	23	28.416	356	88.91	0
17	31.83	60	88.73	49	54.990	237	96.92	59	30.356	163	65.93	51	28.060	346	88.91	53
27	31.23	56	88.24	103	54.753	217	96.33	105	30.193	144	65.42	77	27.714	324	88.38	105
Nov. 6	30.67	52	87.21	157	54.536	189	95.28	150	30.049	117	64.65	103	27.390	290	87.33	157
16	30.15	45	85.64	209	54.347	152	93.78	192	29.932	85	63.62	129	27.100	247	85.76	205
26	29.70	38	83.55	255	54.195	109	91.86	230	29.847	47	62.33	150	26.853	195	83.71	249
Dez. 6	29.32	29	81.00	294	54.086	62	89.56	262	29.800	7	60.83	169	26.658	135	81.22	287
16	29.03	19	78.06	325	54.024	12	86.94	286	29.793	35	59.14	183	26.523	72	78.35	316
26	28.84	9	74.81	346	54.012	38	84.08	302	29.828	76	57.31	191	26.451	6	75.19	335
36	28.75		71.35		54.050		81.06		29.904		55.40		26.445		71.84	
Mittl. Ort	32.61		71.71		54.183		82.69		29.020		58.11		27.766		72.40	
sec δ, tg δ	2.617		+2.419		1.269		+0.781		1.020		+0.203		1.671		+1.338	

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Tag	729) τ Draconis				728) α Sagittarii				730) δ Aquilae				732) β Cygni			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
1929	$19^h\,16^m$		$+73°\,13'$		$19^h\,18^m$		$-40°\,45'$		$19^h\,21^m$		$+2°\,58'$		$19^h\,27^m$		$+27°\,48'$	
Jan. 1	$51^s.07$	9	$23''.88$	353	$55^s.333$	144	$13''.36$	121	$52^s.941$	98	$11''.60$	147	$49^s.221$	66	$28''.63$	267
11	50.98	6	20.35	355	55.477	192	12.15	123	53.039	135	10.13	143	49.287	108	25.96	266
21	51.04	21	16.80	346	55.669	236	10.92	121	53.174	168	8.70	134	49.395	148	23.30	256
31	51.25	34	13.34	324	55.905	274	9.71	117	53.342	197	7.36	119	49.543	184	20.74	235
Feb. 10	51.59	46	10.10	288	56.179	306	8.54	112	53.539	222	6.17	99	49.727	217	18.39	205
20	52.05	57	7.22	244	56.485	333	7.42	105	53.761	245	5.18	73	49.944	245	16.34	167
März 2	52.62	66	4.78	189	56.818	356	6.37	98	54.006	263	4.45	43	50.189	270	14.67	122
12	53.28	73	2.89	128	57.174	373	5.39	89	54.269	278	4.02	10	50.459	290	13.45	72
22	54.01	76	1.61	63	57.547	387	4.50	79	54.547	290	3.92	22	50.749	304	12.73	20
Apr. 1	54.77	78	0.98	2	57.934	396	3.71	66	54.837	297	4.14	55	51.053	313	12.53	33
11	55.55	77	1.00	68	58.330	398	3.05	53	55.134	301	4.69	86	51.366	317	12.86	84
21	56.32	73	1.68	129	58.728	396	2.52	38	55.435	299	5.55	113	51.683	314	13.70	131
Mai 1	57.05	67	2.97	185	59.124	386	2.14	20	55.734	292	6.68	135	51.997	305	15.01	173
11	57.72	60	4.82	233	59.510	371	1.94	1	56.026	281	8.03	153	52.302	289	16.74	210
21	58.32	51	7.15	275	59.881	347	1.93	18	56.307	262	9.56	165	52.591	267	18.84	237
31	58.83	39	9.90	306	60.228	316	2.11	38	56.569	237	11.21	171	52.858	238	21.21	259
Juni 10	59.22	28	12.96	329	60.544	278	2.49	57	56.806	208	12.92	173	53.096	203	23.80	272
20	59.50	15	16.25	343	60.822	234	3.06	76	57.014	174	14.65	169	53.299	164	26.52	277
30	59.65	2	19.68	347	61.056	184	3.82	92	57.188	135	16.34	160	53.463	121	29.29	275
Juli 10	59.67	11	23.15	343	61.240	129	4.74	105	57.323	93	17.94	148	53.584	74	32.04	267
19	59.56	24	26.58	331	61.369	72	5.79	114	57.416	49	19.42	134	53.658	27	34.71	252
29	59.32	36	29.89	311	61.441	15	6.93	119	57.465	6	20.76	117	53.685	20	37.23	232
Aug. 8	58.96	48	33.00	284	61.456	40	8.12	119	57.471	35	21.93	98	53.665	65	39.55	207
18	58.48	57	35.84	251	61.416	92	9.31	114	57.436	75	22.91	78	53.600	106	41.62	178
28	57.91	66	38.35	213	61.324	137	10.45	104	57.361	108	23.69	58	53.494	143	43.40	146
Sept. 7	57.25	74	40.48	170	61.187	174	11.49	89	57.253	134	24.27	38	53.351	171	44.86	111
17	56.51	78	42.18	122	61.013	199	12.38	70	57.119	154	24.65	17	53.180	193	45.97	74
27	55.73	82	43.40	71	60.814	213	13.08	47	56.965	163	24.82	3	52.987	205	46.71	35
Okt. 7	54.91	83	44.11	18	60.601	214	13.55	24	56.802	164	24.79	23	52.782	206	47.06	5
17	54.08	82	44.29	36	60.387	201	13.79	3	56.638	155	24.56	42	52.576	199	47.01	45
27	53.26	78	43.93	92	60.186	177	13.76	29	56.483	137	24.14	61	52.377	183	46.56	85
Nov. 6	52.48	73	43.01	146	60.009	142	13.47	53	56.346	111	23.53	80	52.194	157	45.71	125
16	51.75	65	41.55	198	59.867	98	12.94	73	56.235	78	22.73	97	52.037	125	44.46	161
26	51.10	55	39.57	245	59.769	48	12.21	92	56.157	42	21.76	113	51.912	88	42.85	195
Dez. 6	50.55	44	37.12	286	59.721	6	11.29	105	56.115	3	20.63	127	51.824	46	40.90	223
16	50.11	31	34.26	319	59.727	61	10.24	116	56.112	37	19.36	137	51.778	3	38.67	246
26	49.80	18	31.07	342	59.788	115	9.08	122	56.149	78	17.99	143	51.775	41	36.21	260
36	49.62		27.65		59.903		7.86		56.227		16.56		51.816		33.61	
Mittl. Ort	55.73		27.04		58.167		3.95		55.118		18.92		51.452		34.07	
sec δ, tg δ	3.465		+3.317		1.320		−0.862		1.001		+0.052		1.131		+0.527	

Tag	733) ι Cygni AR.		Dekl.		736) h Sagittarii AR.		Dekl.		738) ϑ Cygni AR.		Dekl.		742) δ Cygni AR.		Dekl.	
1929	19h 27m		+51° 34′		19h 32m		−25° 2′		19h 34m		+50° 2′		19h 42m		+44° 56′	
Jan. 1	52.289	20	36.30	336	20.882	112	39.90	28	29.589	15	77.58	330	42.878	18	80.21	316
11	52.309	83	32.94	339	20.994	152	39.62	32	29.604	75	74.28	334	42.896	71	77.05	320
21	52.392	145	29.55	329	21.146	188	39.30	36	29.679	135	70.94	325	42.967	124	73.85	314
31	52.537	202	26.26	306	21.334	219	38.94	41	29.814	190	67.69	305	43.091	175	70.71	294
Feb. 10	52.739	255	23.20	274	21.553	247	38.53	46	30.004	242	64.64	273	43.266	220	67.77	264
20	52.994	302	20.46	229	21.800	272	38.07	53	30.246	287	61.91	230	43.486	262	65.13	223
März 2	53.296	341	18.17	176	22.072	292	37.54	60	30.533	327	59.61	179	43.748	298	62.90	175
12	53.637	371	16.41	118	22.364	309	36.94	66	30.860	357	57.82	120	44.046	327	61.15	118
22	54.008	393	15.23	55	22.673	323	36.28	72	31.217	380	56.62	59	44.373	350	59.97	59
April 1	54.401	404	14.68	9	22.996	333	35.56	77	31.597	393	56.03	5	44.723	364	59.38	3
11	54.805	406	14.77	72	23.329	338	34.79	78	31.990	397	56.08	67	45.087	370	59.41	63
21	55.211	398	15.49	132	23.667	339	34.01	78	32.387	391	56.75	126	45.457	367	60.04	120
Mai 1	55.609	379	16.81	185	24.006	334	33.23	75	32.778	375	58.01	180	45.824	356	61.24	173
11	55.988	351	18.66	232	24.340	323	32.48	69	33.153	349	59.81	227	46.180	335	62.97	220
21	56.339	315	20.98	271	24.663	306	31.79	59	33.502	316	62.08	267	46.515	307	65.17	258
31	56.654	270	23.69	302	24.969	281	31.20	48	33.818	274	64.75	298	46.822	271	67.75	289
Juni 10	56.924	218	26.71	323	25.250	251	30.72	34	34.092	224	67.73	321	47.093	228	70.64	311
20	57.142	160	29.94	336	25.501	214	30.38	20	34.316	169	70.94	333	47.321	179	73.75	324
30	57.302	100	33.30	339	25.715	172	30.18	5	34.485	111	74.27	338	47.500	126	76.99	328
Juli 10	57.402	36	36.69	334	25.887	127	30.13	10	34.596	50	77.65	334	47.626	70	80.27	325
19	[14] 57.438	27	40.03	322	[15] 26.014	79	30.23	23	[16] 34.646	13	80.99	323	[18] 47.696	12	83.52	314
29	57.411	90	43.25	301	26.093	30	30.46	34	34.633	74	84.22	303	47.708	44	86.66	296
Aug. 8	57.321	149	46.26	274	26.123	18	30.80	44	34.559	132	87.25	277	47.664	98	89.62	271
18	57.172	202	49.00	243	26.105	63	31.24	49	34.427	185	90.02	246	47.566	149	92.33	242
28	56.970	250	51.43	204	26.042	102	31.73	52	34.242	232	92.48	209	47.417	192	94.75	206
Sept. 7	56.720	287	53.47	162	25.940	134	32.25	51	34.010	269	94.57	167	47.225	229	96.81	166
17	56.433	315	55.09	116	25.806	157	32.76	47	33.741	298	96.24	123	46.996	257	98.47	122
27	56.118	333	56.25	68	25.649	171	33.23	41	33.443	316	97.47	74	46.739	274	99.69	77
Okt. 7	55.785	337	56.93	16	25.478	173	33.64	32	33.127	322	98.21	25	46.465	282	100.46	28
17	55.448	330	57.09	36	25.305	165	33.96	23	32.805	317	98.46	28	46.183	277	100.74	21
27	55.118	312	56.73	89	25.140	147	34.19	12	32.488	300	98.18	80	45.906	263	100.53	72
Nov. 6	54.806	282	55.84	141	24.993	119	34.31	3	32.188	273	97.38	132	45.643	239	99.81	122
16	54.524	243	54.43	189	24.874	84	34.34	6	31.915	236	96.06	181	45.404	206	98.59	168
26	54.281	195	52.54	235	24.790	44	34.28	13	31.679	190	94.25	226	45.198	165	96.91	213
Dez. 6	54.086	140	50.19	274	24.746	0	34.15	19	31.489	138	91.99	265	45.033	118	94.78	251
16	53.946	81	47.45	304	24.746	45	33.96	25	31.351	81	89.34	297	44.915	68	92.27	283
26	53.865	18	44.41	325	24.791	88	33.71	28	31.270	22	86.37	319	44.847	14	89.44	304
36	53.847		41.16		24.879		33.43		31.248		83.18		44.833		86.40	
Mittl. Ort	54.986		39.97		23.300		30.36		32.234		81.01		45.372		83.65	
sec δ, tg δ	1.609		+1.261		1.104		−0.467		1.558		+1.194		1.413		+0.998	

Tag	741) γ Aquilae AR.		Dekl.		743) δ Sagittae AR.		Dekl.		745) γ Aquilae [1]) AR.		Dekl.		747) ε Draconis AR.		Dekl.	
1929	19h 42m		+10° 26′		19h 44m		+18° 21′		19h 47m		+8° 40′		19h 48m		+70° 4′	
Jan. 1	50.903	71	13.93	180	11.143	61	22.91	219	17.000	72	39.55	167	21.23	14	72.22	339
11	50.974	107	12.13	179	11.204	99	20.72	219	17.072	109	37.88	166	21.09	2	68.83	350
21	51.081	142	10.34	170	11.303	136	18.53	210	17.181	142	36.22	157	21.07	11	65.33	349
31	51.223	173	8.64	154	11.439	169	16.43	193	17.323	173	34.65	142	21.18	22	61.84	334
Feb. 10	51.396	201	7.10	131	11.608	199	14.50	169	17.496	201	33.23	120	21.40	33	58.50	306
20	51.597	227	5.79	103	11.807	226	12.81	135	17.697	227	32.03	92	21.73	43	55.44	268
März 2	51.824	249	4.76	68	12.033	251	11.46	96	17.924	248	31.11	58	22.16	52	52.76	218
12	52.073	268	4.08	30	12.284	270	10.50	54	18.172	268	30.53	23	22.68	58	50.58	162
22	52.341	283	3.78	8	12.554	287	9.96	8	18.440	283	30.30	15	23.26	64	48.96	99
Apr. 1	52.624	294	3.86	48	12.841	299	9.88	37	18.723	294	30.45	53	23.90	66	47.97	34
11	52.918	301	4.34	85	13.140	305	10.25	81	19.017	301	30.98	89	24.56	67	47.63	32
21	53.219	302	5.19	120	13.445	306	11.06	122	19.318	303	31.87	121	25.23	66	47.95	94
Mai 1	53.521	298	6.39	149	13.751	302	12.28	159	19.621	300	33.08	150	25.89	63	48.89	154
11	53.819	287	7.88	173	14.053	290	13.87	189	19.921	289	34.58	171	26.52	58	50.43	207
21	54.106	272	9.61	192	14.343	272	15.76	213	20.210	274	36.29	190	27.10	51	52.50	254
31	54.378	248	11.53	203	14.615	249	17.89	230	20.484	251	38.19	200	27.61	43	55.04	291
Juni 10	54.626	220	13.56	210	14.864	218	20.19	240	20.735	223	40.19	205	28.04	33	57.95	320
20	54.846	186	15.66	210	15.082	184	22.59	244	20.958	189	42.24	204	28.37	23	61.15	341
30	55.032	148	17.76	204	15.266	143	25.03	241	21.147	151	44.28	197	28.60	12	64.56	352
Juli 10	55.180	105	19.80	194	15.409	100	27.44	232	21.298	110	46.25	187	28.72	2	68.08	354
19	55.285	62	21.74	180	15.509	55	29.76	218	21.408	66	48.12	172	28.74	10	71.62	348
29	55.347	18	23.54	161	15.564	10	31.94	200	21.474	22	49.84	154	28.64	21	75.10	335
Aug. 8	55.365	26	25.15	141	15.574	34	33.94	178	21.496	21	51.38	134	28.43	31	78.45	313
18	55.339	66	26.56	118	15.540	75	35.72	152	21.475	62	52.72	111	28.12	40	81.58	285
28	55.273	101	27.74	93	15.465	111	37.24	125	21.413	97	53.83	87	27.72	49	84.43	251
Sept. 7	55.172	131	28.67	68	15.354	141	38.49	95	21.316	127	54.70	63	27.23	56	86.94	211
17	55.041	152	29.35	42	15.213	163	39.44	64	21.189	148	55.33	38	26.67	61	89.05	167
27	54.889	165	29.77	16	15.050	177	40.08	31	21.041	162	55.71	14	26.06	65	90.72	118
Okt. 7	54.724	169	29.93	10	14.873	181	40.39	2	20.879	165	55.85	12	25.41	67	91.90	65
17	54.555	164	29.83	37	14.692	176	40.37	34	20.714	161	55.73	36	24.74	68	92.55	11
27	54.391	150	29.46	63	14.516	163	40.03	67	20.553	146	55.37	60	24.06	66	92.66	45
Nov. 6	54.241	127	28.83	87	14.353	140	39.36	99	20.407	124	54.77	83	23.40	62	92.21	102
16	54.114	98	27.96	112	14.213	112	38.37	130	20.283	96	53.94	105	22.78	58	91.19	156
26	54.016	65	26.84	133	14.101	78	37.07	157	20.187	63	52.89	125	22.20	50	89.63	208
Dez. 6	53.951	28	25.51	151	14.023	40	35.50	182	20.124	26	51.64	142	21.70	41	87.55	255
16	53.923	11	24.00	166	13.983	2	33.68	200	20.098	13	50.22	155	21.29	32	85.00	294
26	53.934	50	22.34	175	13.981	39	31.68	212	20.111	51	48.67	163	20.97	21	82.06	323
36	53.984		20.59		14.020		29.56		20.162		47.04		20.76		78.83	
Mittl. Ort	53.046		20.73		13.303		28.89		19.140		46.65		25.35		73.43	
sec δ, tg δ	1.017		+0.184		1.054		+0.332		1.012		+0.153		2.936		+2.761	

[1]) Die jährliche Parallaxe (0.″23) ist bereits berücksichtigt.

Tag	749) β Aquilae AR.		Dekl.	
1929	19h 51m		+6° 13′	
Jan. 1	47.404	66	34.46	155
11	47.470	103	32.91	154
21	47.573	136	31.37	146
31	47.709	167	29.91	131
Feb. 10	47.876	195	28.60	111
20	48.071	221	27.49	84
März 2	48.292	243	26.65	54
12	48.535	263	26.11	19
22	48.798	279	25.92	16
Apr. 1	49.077	292	26.08	52
11	49.369	300	26.60	86
21	49.669	303	27.46	116
Mai 1	49.972	300	28.62	142
11	50.272	292	30.04	164
21	50.564	278	31.68	179
31	50.842	256	33.47	188
Juni 10	51.098	229	35.35	193
20	51.327	196	37.28	191
30	51.523	159	39.19	185
Juli 10	51.682	117	41.04	174
20	51.799	74	42.78	159
29	[20] 51.873	30	44.37	141
Aug. 8	51.903	14	45.78	122
18	51.889	54	47.00	101
28	51.835	91	48.01	78
Sept. 7	51.744	121	48.79	55
17	51.623	144	49.34	33
27	51.479	157	49.67	10
Okt. 7	51.322	163	49.77	13
17	51.159	159	49.64	35
27	51.000	146	49.29	57
Nov. 6	50.854	125	48.72	79
16	50.729	98	47.93	98
26	50.631	65	46.95	116
Dez. 6	50.566	30	45.79	132
16	50.536	8	44.47	143
26	50.544	46	43.04	152
36	50.590		41.52	
Mittl. Ort	49.534		41.72	
sec δ, tg δ	1.006		+0.109	

Tag	748) ε Pavonis AR		Dekl.	
1929	19h 52m		−73° 5′	
Jan. 1	18.63	13	74.10	294
11	18.76	26	71.16	299
21	19.02	39	68.17	296
31	19.41	51	65.21	285
Feb. 10	19.92	62	62.36	268
20	20.54	70	59.68	246
März 2	21.24	78	57.22	217
12	22.02	85	55.05	185
22	22.87	90	53.20	150
Apr. 1	23.77	92	51.70	112
11	24.69	94	50.58	70
21	25.63	94	49.88	29
Mai 1	26.57	93	49.59	14
11	27.50	89	49.73	56
21	28.39	83	50.29	98
31	29.22	76	51.27	137
Juni 10	29.98	67	52.64	172
20	30.65	57	54.36	204
30	31.22	45	56.40	229
Juli 10	31.67	31	58.69	249
20	31.98	18	61.18	260
29	[20] 32.16	4	63.78	263
Aug. 8	32.20	10	66.41	257
18	32.10	24	68.98	242
28	31.86	36	71.40	219
Sept. 7	31.50	47	73.59	186
17	31.03	55	75.45	146
27	30.48	60	76.91	99
Okt. 7	29.88	63	77.90	48
17	29.25	64	78.38	5
27	28.61	60	78.33	60
Nov. 6	28.01	54	77.73	113
16	27.47	45	76.60	161
26	27.02	35	74.99	205
Dez. 6	26.67	23	72.94	241
16	26.44	9	70.53	269
26	26.35	5	67.84	288
36	26.40		64.96	
Mittl. Ort	24.55		61.07	
sec δ, tg δ	3.440		−3.291	

Tag	750) ψ Cygni AR.		Dekl.	
1929	19h 53m		+52° 14′	
Jan. 1	44.961	21	56.97	325
11	44.940	42	53.72	333
21	44.982	104	50.39	330
31	45.086	164	47.09	314
Feb. 10	45.250	221	43.95	285
20	45.471	273	41.10	246
März 2	45.744	318	38.64	198
12	46.062	356	36.66	142
22	46.418	384	35.24	82
Apr. 1	46.802	403	34.42	17
11	47.205	412	34.25	45
21	47.617	411	34.70	106
Mai 1	48.028	399	35.76	162
11	48.427	376	37.38	212
21	48.803	345	39.50	255
31	49.148	303	42.05	290
Juni 10	49.451	254	44.95	317
20	49.705	198	48.12	334
30	49.903	138	51.46	341
Juli 10	50.041	75	54.87	343
20	50.116	9	58.30	334
29	[21] 50.125	55	61.64	319
Aug. 8	50.070	117	64.83	296
18	49.953	174	67.79	267
28	49.779	226	70.46	232
Sept. 7	49.553	268	72.78	194
17	49.285	302	74.72	149
27	48.983	324	76.21	101
Okt. 7	48.659	336	77.22	52
17	48.323	335	77.74	0
27	47.988	323	77.74	54
Nov. 6	47.665	300	77.20	107
16	47.365	267	76.13	159
26	47.098	224	74.54	206
Dez. 6	46.874	174	72.48	249
16	46.700	118	69.99	284
26	46.582	58	67.15	311
36	46.524		64.04	
Mittl. Ort	47.678		59.21	
sec δ, tg δ	1.633		+1.291	

Tag	751) ϑ¹ Sagittarii AR.		Dekl.	
1929	19h 55m		−35° 28′	
Jan. 1	4.497	93	22.86	98
11	4.590	138	21.88	105
21	4.728	179	20.83	109
31	4.907	216	19.74	113
Feb. 10	5.123	249	18.61	115
20	5.372	280	17.46	116
März 2	5.652	305	16.30	116
12	5.957	328	15.14	113
22	6.285	346	14.01	110
Apr. 1	6.631	361	12.91	105
11	6.992	371	11.86	96
21	7.363	375	10.90	85
Mai 1	7.738	374	10.05	71
11	8.112	365	9.34	55
21	8.477	349	8.79	37
31	8.826	326	8.42	17
Juni 10	9.152	294	8.25	3
20	9.446	257	8.28	25
30	9.703	212	8.53	45
Juli 10	9.915	163	8.98	63
20	10.078	110	9.61	79
29	[21] 10.188	56	10.40	91
Aug. 8	10.244	2	11.31	99
18	10.246	50	12.30	102
28	10.196	96	13.32	101
Sept. 7	10.100	135	14.33	94
17	9.965	166	15.27	84
27	9.799	184	16.11	68
Okt. 7	9.615	193	16.79	49
17	9.422	189	17.28	29
27	9.233	174	17.57	7
Nov. 6	9.059	148	17.64	14
16	8.911	114	17.50	35
26	8.797	72	17.15	54
Dez. 6	8.725	28	16.61	70
16	8.697	20	15.91	84
26	8.717	67	15.07	95
36	8.784		14.12	
Mittl. Ort	7.057		11.29	
sec δ, tg δ	1.228		−0.712	

Tag	752) γ Sagittae AR.		Dekl.		754) δ Pavonis AR.		Dekl.	
1929	$19^h 55^m$		$+19° 17'$		$20^h 1^m$		$-66° 21'$	
Jan. 1	$33^s.798$	49	$47''.90$	219	$42^s.23$	10	$68''.76$	263
11	33.847	87	45.71	220	42.33	20	66.13	270
21	33.934	123	43.51	212	42.53	29	63.43	271
31	34.057	157	41.39	197	42.82	37	60.72	266
Feb. 10	34.214	189	39.42	172	43.19	45	58.06	253
20	34.403	217	37.70	140	43.64	51	55.53	236
März 2	34.620	243	36.30	103	44.15	57	53.17	213
12	34.863	266	35.27	59	44.72	62	51.04	187
22	35.129	283	34.68	14	45.34	66	49.17	156
Apr. 1	35.412	297	34.54	33	46.00	68	47.61	124
11	35.709	306	34.87	77	46.68	70	46.37	88
21	36.015	309	35.64	119	47.38	71	45.49	50
Mai 1	36.324	305	36.83	157	48.09	70	44.99	11
11	36.629	296	38.40	188	48.79	68	44.88	28
21	36.925	280	40.28	214	49.47	64	45.16	67
31	37.205	257	42.42	232	50.11	60	45.83	105
Juni 10	37.462	228	44.74	244	50.71	53	46.88	141
20	37.690	193	47.18	249	51.24	46	48.29	172
30	37.883	154	49.67	247	51.70	38	50.01	200
Juli 10	38.037	111	52.14	240	52.08	28	52.01	220
20	38.148	65	54.54	227	52.36	18	54.21	235
29	[21] 38.213	20	56.81	209	[23] 52.54	7	56.56	242
Aug. 8	38.233	25	58.90	187	52.61	3	58.98	241
18	38.208	66	60.77	162	52.58	13	61.39	231
28	38.142	104	62.39	134	52.45	23	63.70	213
Sept. 7	38.038	136	63.73	105	52.22	30	65.83	185
17	37.902	159	64.78	73	51.92	37	67.68	152
27	37.743	174	65.51	41	51.55	41	69.20	110
Okt. 7	37.569	180	65.92	7	51.14	43	70.30	64
17	37.389	178	65.99	26	50.71	44	70.94	17
27	37.211	165	65.73	60	50.27	42	71.11	34
Nov. 6	37.046	146	65.13	93	49.85	37	70.77	83
16	36.900	119	64.20	124	49.48	31	69.94	130
26	36.781	86	62.96	153	49.17	24	68.64	171
Dez. 6	36.695	51	61.43	178	48.93	15	66.93	206
16	36.644	12	59.65	197	48.78	5	64.87	235
26	36.632	27	57.68	212	48.73	4	62.52	256
36	36.659		55.56		48.77		59.96	
Mittl. Ort	35.947		53.61		46.65		55.00	
sec δ, tg δ	1.060		+0.350		2.494		−2.285	

Tag	756) ϑ Aquilae AR.		Dekl.		759) κ Cephei AR.		Dekl.	
1929	$20^h 7^m$		$-1° 1'$		$20^h 11^m$		$+77° 29'$	
Jan. 1	$36^s.411$	58	$68''.01$	109	$12^s.74$	38	$54''.95$	319
11	36.469	93	69.10	105	12.36	19	51.76	338
21	36.562	126	70.15	98	12.17	0	48.38	344
31	36.688	157	71.13	85	12.17	19	44.94	338
Feb. 10	36.845	185	71.98	67	12.36	37	41.56	318
20	37.030	212	72.65	45	12.73	55	38.38	286
März 2	37.242	235	73.10	20	13.28	70	35.52	244
12	37.477	256	73.30	8	13.98	82	33.08	191
22	37.733	275	73.22	38	14.80	92	31.17	133
Apr. 1	38.008	289	72.84	67	15.72	98	29.84	71
11	38.297	300	72.17	93	16.70	101	29.13	6
21	38.597	306	71.24	117	17.71	100	29.07	58
Mai 1	38.903	307	70.07	137	18.71	96	29.65	118
11	39.210	301	68.70	152	19.67	90	30.83	174
21	39.511	289	67.18	161	20.57	79	32.57	224
31	39.800	270	65.57	168	21.36	68	34.81	267
Juni 10	40.070	245	63.89	168	22.04	54	37.48	301
20	40.315	215	62.21	162	22.58	39	40.49	327
30	40.530	178	60.59	153	22.97	22	43.76	345
Juli 10	40.708	138	59.06	141	23.19	5	47.21	354
20	40.846	94	57.65	126	23.24	11	50.75	354
29	[24] 40.940	50	56.39	108	[25] 23.13	29	54.29	347
Aug. 8	40.990	6	55.31	90	22.84	45	57.76	332
18	40.996	36	54.41	71	22.39	59	61.08	310
28	40.960	74	53.70	51	21.80	73	64.18	280
Sept. 7	40.886	106	53.19	33	21.07	85	66.98	246
17	40.780	131	52.86	15	20.22	95	69.44	205
27	40.649	148	52.71	1	19.27	102	71.49	160
Okt. 7	40.501	155	52.72	18	18.25	107	73.09	110
17	40.346	153	52.90	33	17.18	110	74.19	57
27	40.193	143	53.23	48	16.08	110	74.76	2
Nov. 6	40.050	124	53.71	61	14.98	106	74.78	56
16	39.926	99	54.32	73	13.92	100	74.22	113
26	39.827	69	55.05	85	12.92	91	73.09	167
Dez. 6	39.758	34	55.90	95	12.01	79	71.42	219
16	39.724	1	56.85	102	11.22	66	69.23	262
26	39.725	38	57.87	105	10.56	48	66.61	299
36	39.763		58.92		10.08		63.62	
Mittl. Ort	38.525		59.74		18.70		54.15	
sec δ, tg δ	1.000		−0.018		4.620		+4.510	

Tag	757) o¹ Cygni sq. AR.		Dekl.		760) 24 Vulpeculae AR.		Dekl.		761) α^2 Capricorni AR.		Dekl.		765) γ Cygni AR.		Dekl.	
1929	$20^h\,11^m$		$+46°\,31'$		$20^h\,13^m$		$+24°\,26'$		$20^h\,14^m$		$-12°\,45'$		$20^h\,19^m$		$+40°\,1'$	
Jan. 1	21.241	25	28.79	304	42.633	24	60.21	233	4.851	60	67.76	38	38.428	15	40.59	283
11	21.216	30	25.75	315	42.657	62	57.88	238	4.911	96	68.14	32	38.413	33	37.76	293
21	21.246	83	22.60	314	42.719	101	55.50	233	5.007	130	68.46	23	38.446	79	34.83	293
31	21.329	136	19.46	301	42.820	137	53.17	219	5.137	161	68.69	13	38.525	126	31.90	281
Feb. 10	21.465	187	16.45	276	42.957	171	50.98	196	5.298	190	68.82	0	38.651	170	29.09	258
20	21.652	233	13.69	241	43.128	203	49.02	164	5.488	216	68.82	17	38.821	212	26.51	225
März 2	21.885	276	11.28	196	43.331	233	47.38	125	5.704	241	68.65	35	39.033	250	24.26	182
12	22.161	312	9.32	144	43.564	259	46.13	81	5.945	263	68.30	53	39.283	283	22.44	132
22	22.473	341	7.88	86	43.823	281	45.32	34	6.208	282	67.77	72	39.566	311	21.12	77
Apr. 1	22.814	363	7.02	25	44.104	298	44.98	16	6.490	297	67.05	89	39.877	332	20.35	20
11	23.177	377	6.77	36	44.402	310	45.14	65	6.787	310	66.16	104	40.209	347	20.15	38
21	23.554	380	7.13	94	44.712	316	45.79	110	7.097	317	65.12	117	40.556	353	20.53	94
Mai 1	23.934	375	8.07	150	45.028	316	46.89	152	7.414	319	63.95	126	40.909	352	21.47	147
11	24.309	360	9.57	199	45.344	308	48.41	190	7.733	315	62.69	130	41.261	341	22.94	193
21	24.669	336	11.56	242	45.652	293	50.31	220	8.048	304	61.39	129	41.602	322	24.87	235
31	25.005	303	13.98	278	45.945	271	52.51	243	8.352	286	60.10	126	41.924	296	27.22	267
Juni 10	25.308	264	16.76	304	46.216	243	54.94	259	8.638	262	58.84	118	42.220	261	29.89	293
20	25.572	216	19.80	323	46.459	209	57.53	269	8.900	232	57.66	106	42.481	219	32.82	310
30	25.788	163	23.03	333	46.668	169	60.22	270	9.132	195	56.60	93	42.700	173	35.92	318
Juli 10	25.951	107	26.36	335	46.837	125	62.92	266	9.327	154	55.67	76	42.873	122	39.10	320
20	26.058	48	29.71	328	46.962	79	65.58	255	9.481	110	54.91	60	42.995	68	42.30	314
29	[25] 26.106	10	32.99	315	[26] 47.041	31	68.13	239	[26] 9.591	64	54.31	42	[27] 43.063	15	45.44	300
Aug. 8	26.096	68	36.14	295	47.072	14	70.52	218	9.655	18	53.89	26	43.078	38	48.44	280
18	26.028	122	39.09	268	47.058	59	72.70	193	9.673	26	53.63	11	43.040	88	51.24	255
28	25.906	170	41.77	236	46.999	98	74.63	164	9.647	66	53.52	3	42.952	133	53.79	224
Sept. 7	25.736	211	44.13	199	46.901	132	76.27	134	9.581	100	53.55	14	42.819	173	56.03	190
17	25.525	245	46.12	158	46.769	159	77.61	100	9.481	127	53.69	24	42.646	204	57.93	150
27	25.280	268	47.70	113	46.610	177	78.61	65	9.354	145	53.93	31	42.442	226	59.43	108
Okt. 7	25.012	281	48.83	66	46.433	186	79.26	28	9.209	154	54.24	35	42.216	239	60.51	63
17	24.731	283	49.49	15	46.247	187	79.54	9	9.055	153	54.59	39	41.977	242	61.14	17
27	24.448	276	49.64	35	46.060	178	79.45	46	8.902	144	54.98	41	41.735	236	61.31	31
Nov. 6	24.172	257	49.29	86	45.882	162	78.99	83	8.758	125	55.39	41	41.499	220	61.00	79
16	23.915	231	48.43	136	45.720	138	78.16	119	8.633	100	55.80	43	41.279	196	60.21	125
26	23.684	195	47.07	183	45.582	108	76.97	153	8.533	68	56.23	42	41.083	165	58.96	169
Dez. 6	23.489	154	45.24	226	45.474	74	75.44	182	8.465	34	56.65	42	40.918	127	57.27	210
16	23.335	106	42.98	262	45.400	37	73.62	205	8.431	2	57.07	40	40.791	86	55.17	243
26	23.229	55	40.36	289	45.363	1	71.57	223	8.433	40	57.47	38	40.705	42	52.74	269
36	23.174		37.47		45.364		69.34		8.473		57.85		40.663		50.05	
Mittl. Ort	23.751		30.70		44.786		64.89		7.012		57.78		40.773		42.93	
sec δ, tg δ	1.453		+1.055		1.098		+0.455		1.025		−0.227		1.306		+0.840	

Scheinbare Sternörter 1929

Tag	764) α Pavonis				767) ϑ Cephei				768) ε Delphini				770) 73 Draconis			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
1929	$20^h 19^m$		$-56° 57'$		$20^h 28^m$		$+62° 44'$		$20^h 29^m$		$+11° 3'$		$20^h 32^m$		$+74° 42'$	
Jan. 1	^{s}59.211	63	″65.54	220	^{s}20.35	15	″78.96	312	^{s}47.201	26	″32.57	165	^{s}22.92	35	″43.81	306
11	59.274	129	63.34	232	20.20	6	75.84	332	47.227	61	30.92	167	22.57	21	40.75	330
21	59.403	194	61.02	239	20.14	3	72.52	339	47.288	95	29.25	161	22.36	6	37.45	342
31	59.597	254	58.63	240	20.17	11	69.13	333	47.383	127	27.64	148	22.30	10	34.03	339
Feb. 10	59.851	309	56.23	235	20.28	19	65.80	315	47.510	158	26.16	129	22.40	25	30.64	325
20	60.160	359	53.88	227	20.47	27	62.65	284	47.668	187	24.87	103	22.65	39	27.39	298
März 2	60.519	404	51.61	213	20.74	35	59.81	242	47.855	215	23.84	71	23.04	53	24.41	259
12	60.923	443	49.48	195	21.09	40	57.39	191	48.070	240	23.13	36	23.57	64	21.82	211
22	61.366	475	47.53	174	21.49	46	55.48	133	48.310	263	22.77	3	24.21	73	19.71	154
Apr. 1	61.841	501	45.79	150	21.95	49	54.15	71	48.573	281	22.80	41	24.94	79	18.17	94
11	62.342	520	44.29	122	22.44	52	53.44	7	48.854	295	23.21	79	25.73	84	17.23	29
21	62.862	531	43.07	91	22.96	52	53.37	57	49.149	305	24.00	115	26.57	84	16.94	35
Mai 1	63.393	532	42.16	59	23.48	52	53.94	118	49.454	308	25.15	146	27.41	83	17.29	96
11	63.925	523	41.57	24	24.00	50	55.12	175	49.762	304	26.61	173	28.24	79	18.25	155
21	64.448	505	41.33	11	24.50	46	56.87	225	50.066	295	28.34	194	29.03	72	19.80	208
31	64.953	474	41.44	46	24.96	41	59.12	268	50.361	278	30.28	209	29.75	63	21.88	253
Juni 10	65.427	433	41.90	81	25.37	35	61.80	303	50.639	255	32.37	217	30.38	53	24.41	291
20	65.860	381	42.71	113	25.72	28	64.83	330	50.894	224	34.54	221	30.91	41	27.32	322
30	66.241	321	43.84	142	26.00	21	68.13	349	51.118	189	36.75	218	31.32	28	30.54	344
Juli 10	66.562	251	45.26	166	26.21	13	71.62	357	51.307	149	38.93	209	31.60	14	33.98	356
20	66.813	177	46.92	186	26.34	4	75.19	359	51.456	106	41.02	197	31.74	0	37.54	361
29*)	66.990	99	48.78	199	26.38	4	78.78	351	51.562	61	42.99	180	31.74	14	41.15	358
Aug. 8	67.089	20	50.77	204	26.34	12	82.29	337	51.623	17	44.79	160	31.60	28	44.73	346
18	67.109	58	52.81	203	26.22	21	85.66	315	51.640	26	46.39	138	31.32	40	48.19	328
28	67.051	128	54.84	193	26.01	27	88.81	285	51.614	66	47.77	115	30.92	51	51.47	302
Sept. 7	66.923	192	56.77	176	25.74	33	91.66	251	51.548	99	48.92	89	30.41	62	54.49	270
17	66.731	243	58.53	150	25.41	38	94.17	210	51.449	127	49.81	63	29.79	72	57.19	231
27	66.488	281	60.03	119	25.03	43	96.27	165	51.322	147	50.44	37	29.07	79	59.50	188
Okt. 7	66.207	302	61.22	82	24.60	45	97.92	116	51.175	157	50.81	11	28.28	83	61.38	140
17	65.905	308	62.04	41	24.15	47	99.08	63	51.018	159	50.92	16	27.45	86	62.78	87
27	65.597	297	62.45	1	23.68	46	99.71	7	50.859	153	50.76	41	26.59	88	63.65	31
Nov. 6	65.300	269	62.44	45	23.22	45	99.78	50	50.706	139	50.35	67	25.71	86	63.96	26
16	65.031	229	61.99	87	22.77	42	99.28	106	50.567	118	49.68	91	24.85	81	63.70	85
26	64.802	176	61.12	125	22.35	38	98.22	160	50.449	91	48.77	112	24.04	76	62.85	141
Dez. 6	64.626	115	59.87	159	21.97	32	96.62	211	50.358	61	47.65	132	23.28	67	61.44	195
16	64.511	49	58.28	189	21.65	26	94.51	256	50.297	28	46.33	148	22.61	57	59.49	243
26	64.462	21	56.39	211	21.39	20	91.95	292	50.269	6	44.85	159	22.04	44	57.06	283
36	64.483		54.28		21.19		89.03		50.275		43.26		21.60		54.23	
Mittl. Ort	62.530		50.69		23.61		78.16		49.257		39.06		27.92		41.72	
sec δ, tg δ	1.834		−1.538		2.184		+1.942		1.019		+0.196		3.792		+3.658	

*) Bei Stern 768) und 770) lies Juli 30

Tag	769) α Indi AR.		769) α Indi Dekl.		771) β Delphini AR.		771) β Delphini Dekl.		773) υ Capricorni AR.		773) υ Capricorni Dekl.		774) α Delphini AR.		774) α Delphini Dekl.	
1929	$20^h 32^m$		−47° 32′		$20^h 34^m$		+14° 20′		$20^h 35^m$		−18° 23′		$20^h 36^m$		+15° 39′	
Jan. 1	32.016	46	40.80	170	11.115	18	43.67	179	58.486	41	34.72	0	18.359	14	32.20	184
11	32.062	99	39.10	184	11.133	53	41.88	182	58.527	78	34.72	8	18.373	50	30.36	187
21	32.161	150	37.26	194	11.186	88	40.06	177	58.605	111	34.64	18	18.423	84	28.49	184
31	32.311	197	35.32	200	11.274	121	38.29	165	58.716	144	34.46	30	18.507	118	26.65	172
Feb. 10	32.508	241	33.32	201	11.395	153	36.64	146	58.860	175	34.16	42	18.625	151	24.93	152
20	32.749	283	31.31	200	11.548	183	35.18	119	59.035	203	33.74	56	18.776	181	23.41	125
März 2	33.032	319	29.31	194	11.731	212	33.99	86	59.238	231	33.18	71	18.957	210	22.16	92
12	33.351	353	27.37	185	11.943	238	33.13	49	59.469	255	32.47	86	19.167	237	21.24	54
22	33.704	382	25.52	174	12.181	261	32.64	9	59.724	278	31.61	99	19.404	261	20.70	14
April 1	34.086	406	23.78	157	12.442	281	32.55	32	60.002	297	30.62	112	19.665	281	20.56	28
11	34.492	426	22.21	139	12.723	296	32.87	73	60.299	313	29.50	121	19.946	296	20.84	71
21	34.918	438	20.82	117	13.019	307	33.60	111	60.612	324	28.29	129	20.242	307	21.55	110
Mai 1	35.356	443	19.65	91	13.326	310	34.71	146	60.936	329	27.00	131	20.549	311	22.65	145
11	35.799	440	18.74	64	13.636	307	36.17	175	61.265	329	25.69	131	20.860	309	24.10	176
21	36.239	428	18.10	35	13.943	297	37.92	200	61.594	321	24.38	125	21.169	298	25.86	201
31	36.667	406	17.75	4	14.240	281	39.92	217	61.915	307	23.13	116	21.467	282	27.87	220
Juni 10	37.073	376	17.71	28	14.521	257	42.09	229	62.222	284	21.97	104	21.749	259	30.07	233
20	37.449	336	17.99	58	14.778	227	44.38	233	62.506	256	20.93	89	22.008	229	32.40	239
30	37.785	288	18.57	86	15.005	192	46.71	233	62.762	220	20.04	71	22.237	192	34.79	238
Juli 10	38.073	233	19.43	112	15.197	151	49.04	226	62.982	180	19.33	52	22.429	153	37.17	233
20	38.306	172	20.55	135	15.348	108	51.30	214	63.162	135	18.81	33	22.582	109	39.50	221
30	38.478	108	21.90	151	15.456	63	53.44	198	63.297	89	18.48	14	22.691	63	41.71	205
Aug. 8	[31] 38.586	43	23.41	162	[31] 15.519	18	55.42	179	[31] 63.386	41	18.34	3	[31] 22.754	19	43.76	186
18	38.629	21	25.03	167	15.537	25	57.21	156	63.427	6	18.37	18	22.773	25	45.62	164
28	38.608	80	26.70	164	15.512	65	58.77	131	63.421	48	18.55	31	22.748	65	47.26	138
Sept. 7	38.528	134	28.34	154	15.447	100	60.08	105	63.373	86	18.86	41	22.683	99	48.64	111
17	38.394	177	29.88	139	15.347	128	61.13	77	63.287	116	19.27	47	22.584	128	49.75	83
27	38.217	210	31.27	116	15.219	148	61.90	49	63.171	138	19.74	50	22.456	149	50.58	54
Okt. 7	38.007	229	32.43	89	15.071	159	62.39	20	63.033	151	20.24	51	22.307	161	51.12	24
17	37.778	235	33.32	57	14.912	163	62.59	9	62.882	155	20.75	48	22.146	164	51.36	5
27	37.543	228	33.89	22	14.749	157	62.50	38	62.727	149	21.23	43	21.982	159	51.31	36
Nov. 6	37.315	209	34.11	14	14.592	144	62.12	66	62.578	133	21.66	38	21.823	146	50.95	65
16	37.106	178	33.97	48	14.448	123	61.46	93	62.445	111	22.04	32	21.677	126	50.30	93
26	36.928	137	33.49	82	14.325	98	60.53	118	62.334	83	22.36	25	21.551	102	49.37	119
Dez. 6	36.791	90	32.67	112	14.227	68	59.35	140	62.251	50	22.61	17	21.449	71	48.18	143
16	36.701	38	31.55	138	14.159	36	57.95	158	62.201	15	22.78	11	21.378	39	46.75	162
26	36.663	14	30.17	161	14.123	1	56.37	171	62.186	22	22.89	3	21.339	5	45.13	176
36	36.677		28.56		14.122		54.66		62.208		22.92		21.334		43.37	
Mittl. Ort	34.761		25.79		13.169		49.56		60.622		23.28		20.413		37.84	
sec δ, tg δ	1.481		−1.093		1.032		+0.256		1.054		−0.332		1.039		+0.280	

Tag	775) β Pavonis AR.	Diff.	Dekl.	Diff.
1929	20ʰ 38ᵐ		−66° 27′	
Jan. 1	30.90	0	53.18	262
11	30.90	10	50.56	280
21	31.00	19	47.76	289
31	31.19	27	44.87	291
Feb. 10	31.46	36	41.96	286
20	31.82	43	39.10	275
März 2	32.25	49	36.35	259
12	32.74	55	33.76	237
22	33.29	61	31.39	211
Apr. 1	33.90	64	29.28	180
11	34.54	67	27.48	146
21	35.21	69	26.02	109
Mai 1	35.90	70	24.93	69
11	36.60	69	24.24	27
21	37.29	67	23.97	15
31	37.96	63	24.12	57
Juni 10	38.59	58	24.69	97
20	39.17	52	25.66	135
30	39.69	44	27.01	169
Juli 10	40.13	35	28.70	198
20	40.48	26	30.68	221
30	40.74	15	32.89	236
Aug. 8	40.89	4	35.25	243
18	40.93	6	37.68	243
28	40.87	16	40.11	231
Sept. 7	40.71	25	42.42	212
17	40.46	32	44.54	184
27	40.14	38	46.38	148
Okt. 7	39.76	43	47.86	105
17	39.33	44	48.91	57
27	38.89	44	49.48	7
Nov. 6	38.45	41	49.55	44
16	38.04	36	49.11	95
26	37.68	30	48.16	142
Dez. 6	37.38	23	46.74	184
16	37.15	14	44.90	221
26	37.01	5	42.69	251
36	36.96		40.18	
Mittl. Ort	34.93		36.39	
sec δ, tg δ	2.504		−2.295	

Tag	777) α Cygni AR.	Diff.	Dekl.	Diff.
1929	20ʰ 38ᵐ		+45° 1′	
Jan. 1	58.234	53	32.24	283
11	58.181	4	29.41	298
21	58.177	48	26.43	303
31	58.225	99	23.40	295
Feb. 10	58.324	149	20.45	277
20	58.473	197	17.68	246
März 2	58.670	241	15.22	206
12	58.911	282	13.16	159
22	59.193	316	11.57	104
Apr. 1	59.509	344	10.53	46
11	59.853	363	10.07	13
21	60.216	374	10.20	72
Mai 1	60.590	376	10.92	127
11	60.966	368	12.19	178
21	61.334	351	13.97	224
31	61.685	324	16.21	262
Juni 10	62.009	289	18.83	291
20	62.298	247	21.74	314
30	62.545	198	24.88	328
Juli 10	62.743	145	28.16	333
20	62.888	89	31.49	332
30	62.977	31	34.81	322
Aug. 8	63.008	25	38.03	306
18	62.983	80	41.09	282
28	62.903	131	43.91	255
Sept. 7	62.772	174	46.46	221
17	62.598	210	48.67	183
27	62.388	238	50.50	140
Okt. 7	62.150	255	51.90	95
17	61.895	265	52.85	47
27	61.630	262	53.32	2
Nov. 6	61.368	250	53.30	53
16	61.118	230	52.77	104
26	60.888	201	51.73	151
Dez. 6	60.687	167	50.22	196
16	60.520	126	48.26	234
26	60.394	80	45.92	265
36	60.314		43.27	
Mittl. Ort	60.655		33.00	
sec δ, tg δ	1.415		+1.001	

Tag	780) ε Cygni AR.	Diff.	Dekl.	Diff.
1929	20ʰ 43ᵐ		+33° 41′	
Jan. 1	18.080	23	70.09	249
11	18.057	17	67.60	261
21	18.074	60	64.99	263
31	18.134	101	62.36	254
Feb. 10	18.235	141	59.82	235
20	18.376	180	57.47	206
März 2	18.556	217	55.41	169
12	18.773	251	53.72	123
22	19.024	280	52.49	74
Apr. 1	19.304	305	51.75	21
11	19.609	323	51.54	33
21	19.932	335	51.87	86
Mai 1	20.267	339	52.73	135
11	20.606	334	54.08	180
21	20.940	323	55.88	219
31	21.263	302	58.07	250
Juni 10	21.565	275	60.57	276
20	21.840	239	63.33	292
30	22.079	199	66.25	303
Juli 10	22.278	153	69.28	304
20	22.431	104	72.32	299
30	22.535	54	75.31	287
Aug. 8	22.589	3	78.18	271
18	22.592	44	80.89	247
28	22.548	89	83.36	220
Sept. 7	22.459	128	85.56	188
17	22.331	160	87.44	152
27	22.171	184	88.96	115
Okt. 7	21.987	200	90.11	74
17	21.787	207	90.85	32
27	21.580	204	91.17	12
Nov. 6	21.376	193	91.05	55
16	21.183	174	90.50	99
26	21.009	149	89.51	139
Dez. 6	20.860	118	88.12	177
16	20.742	84	86.35	209
26	20.658	45	84.26	235
36	20.613		81.91	
Mittl. Ort	20.273		72.44	
sec δ, tg δ	1.202		+0.667	

Tag	781) ε Aquarii AR.	Diff.	Dekl.	Diff.
1929	20ʰ 43ᵐ		−9° 45′	
Jan. 1	47.988	30	34.34	50
11	48.018	64	34.84	43
21	48.082	97	35.27	33
31	48.179	128	35.60	21
Feb. 10	48.307	158	35.81	7
20	48.465	186	35.88	12
März 2	48.651	214	35.76	32
12	48.865	239	35.44	53
22	49.104	262	34.91	74
Apr. 1	49.366	282	34.17	95
11	49.648	298	33.22	114
21	49.946	311	32.08	129
Mai 1	50.257	317	30.79	142
11	50.574	317	29.37	149
21	50.891	311	27.88	151
31	51.202	298	26.37	150
Juni 10	51.500	278	24.87	144
20	51.778	250	23.43	133
30	52.028	216	22.10	120
Juli 10	52.244	177	20.90	105
20	52.421	135	19.85	86
30	52.556	90	18.99	67
Aug. 8	52.646	44	18.32	48
18	52.690	0	17.84	30
28	52.690	42	17.54	13
Sept. 7	52.648	78	17.41	3
17	52.570	108	17.44	14
27	52.462	130	17.58	25
Okt. 7	52.332	143	17.83	34
17	52.189	147	18.17	41
27	52.042	143	18.58	45
Nov. 6	51.899	130	19.03	49
16	51.769	110	19.52	52
26	51.659	84	20.04	53
Dez. 6	51.575	54	20.57	53
16	51.521	23	21.10	52
26	51.498	12	21.62	50
36	51.510		22.12	
Mittl. Ort	50.035		24.14	
sec δ, tg δ	1.015		−0.172	

Tag	783) η Cephei AR.		783) η Cephei Dekl.		784) λ Cygni AR.		784) λ Cygni Dekl.		785) β Indi AR.		785) β Indi Dekl.		786) 32 Vulpeculae AR.		786) 32 Vulpeculae Dekl.	
1929	20h 43m		+61° 33′		20h 44m		+36° 13′		20h 49m		−58° 43′		20h 51m		+27° 46′	
Jan. 1	47.77	16	46.81	297	36.296	32	42.76	257	13.168	4	41.39	224	29.901	19	69.11	225
11	47.61	8	43.84	321	36.264	11	40.19	270	13.172	74	39.15	243	29.882	18	66.86	236
21	47.53	0	40.63	331	36.275	54	37.49	273	13.246	141	36.72	256	29.900	57	64.50	237
31	47.53	8	37.32	329	36.329	97	34.76	265	13.387	206	34.16	263	29.957	94	62.13	228
Feb. 10	47.61	16	34.03	313	36.426	139	32.11	246	13.593	266	31.53	263	30.051	132	59.85	210
20	47.77	24	30.90	287	36.565	180	29.65	217	13.859	323	28.90	258	30.183	168	57.75	183
März 2	48.01	31	28.03	248	36.745	218	27.48	179	14.182	374	26.32	248	30.351	203	55.92	148
12	48.32	37	25.55	199	36.963	254	25.69	134	14.556	421	23.84	232	30.554	235	54.44	106
22	48.69	42	23.56	144	37.217	284	24.35	83	14.977	462	21.52	214	30.789	263	53.38	59
Apr. 1	49.11	47	22.12	83	37.501	310	23.52	29	15.439	496	19.38	189	31.052	288	52.79	10
11	49.58	50	21.29	20	37.811	329	23.23	26	15.935	524	17.49	162	31.340	307	52.69	40
21	50.08	51	21.09	43	38.140	341	23.49	80	16.459	543	15.87	130	31.647	321	53.09	88
Mai 1	50.59	50	21.52	105	38.481	345	24.29	132	17.002	553	14.57	96	31.968	326	53.97	134
11	51.09	49	22.57	162	38.826	340	25.61	178	17.555	551	13.61	60	32.294	325	55.31	175
21	51.58	47	24.19	214	39.166	328	27.39	218	18.106	540	13.01	22	32.619	316	57.06	211
31	52.05	42	26.33	260	39.494	307	29.57	252	18.646	515	12.79	18	32.935	298	59.17	239
Juni 10	52.47	37	28.93	296	39.801	278	32.09	278	19.161	480	12.97	56	33.233	274	61.56	262
20	52.84	30	31.89	326	40.079	242	34.87	297	19.641	432	13.53	92	33.507	243	64.18	276
30	53.14	23	35.15	347	40.321	200	37.84	308	20.073	374	14.45	127	33.750	204	66.94	283
Juli 10	53.37	16	38.62	359	40.521	153	40.92	311	20.447	306	15.72	158	33.954	162	69.77	284
20	53.53	8	42.21	362	40.674	103	44.03	307	20.753	231	17.30	183	34.116	117	72.61	277
30	53.61	0	45.83	358	40.777	52	47.10	296	20.984	150	19.13	201	34.233	69	75.38	266
Aug. 8	53.61	8	49.41	346	40.829	0	50.06	279	21.134	68	21.14	214	34.302	20	78.04	248
18	53.53	16	52.87	327	40.829	49	52.85	257	21.202	15	23.28	217	34.322	26	80.52	226
28	53.37	23	56.14	300	40.780	95	55.42	229	21.187	93	25.45	213	34.296	68	82.78	200
Sept. 7	53.14	29	59.14	267	40.685	134	57.71	197	21.094	164	27.58	200	34.228	107	84.78	170
17	52.85	35	61.81	229	40.551	168	59.68	161	20.930	225	29.58	178	34.121	139	86.48	137
27	52.50	39	64.10	186	40.383	193	61.29	123	20.705	272	31.36	149	33.982	162	87.85	102
Okt. 7	52.11	41	65.96	137	40.190	210	62.52	80	20.433	305	32.85	114	33.820	178	88.87	65
17	51.70	43	67.33	85	39.980	216	63.32	37	20.128	320	33.99	73	33.642	186	89.52	26
27	51.27	44	68.18	31	39.764	215	63.69	8	19.808	319	34.72	29	33.456	184	89.78	13
Nov. 6	50.83	43	68.49	26	39.549	203	63.61	53	19.489	301	35.01	18	33.272	173	89.65	52
16	50.40	40	68.23	83	39.346	186	63.08	99	19.188	269	34.83	63	33.099	157	89.13	90
26	50.00	37	67.40	138	39.160	160	62.09	141	18.919	223	34.20	106	32.942	134	88.23	128
Dez. 6	49.63	32	66.02	190	39.000	129	60.68	180	18.696	167	33.14	147	32.808	106	86.95	161
16	49.31	27	64.12	237	38.871	94	58.88	214	18.529	104	31.67	182	32.702	74	85.34	189
26	49.04	20	61.75	276	38.777	55	56.74	242	18.425	36	29.85	211	32.628	39	83.45	213
36	48.84		58.99		38.722		54.32		18.389		27.74		32.589		81.32	
Mittl. Ort	50.91		45.18		38.524		44.63		16.356		24.29		32.002		72.23	
sec δ, tg δ	2.100		+1.847		1.240		+0.733		1.926		−1.646		1.130		+0.527	

Scheinbare Sternörter 1929

Tag	788) ν Cygni AR.	Δ	788) Dekl.	Δ	790) ζ Microscopii AR.	Δ	790) Dekl.	Δ	793) 61 Cygni pr.[1] AR.	Δ	793) Dekl.	Δ	794) ν Aquarii AR.	Δ	794) Dekl.	Δ
1929	$20^h\,54^m$		$+40°\,53'$		$20^h\,58^m$		$-38°\,54'$		$21^h\,3^m$		$+38°\,23'$		$21^h\,5^m$		$-11°\,39'$	
Jan. 1	29.228	56	34.01	263	23.701	16	51.48	118	40.526	43	56.99	242	41.750	11	47.43	36
11	29.172	11	31.38	279	23.717	60	50.30	136	40.483	2	54.57	258	41.761	44	47.79	27
21	29.161	35	28.59	285	23.777	103	48.94	150	40.481	42	51.99	265	41.805	76	48.06	16
31	29.196	81	25.74	280	23.880	143	47.44	162	40.523	86	49.34	259	41.881	107	48.22	3
Feb. 10	29.277	128	22.94	264	24.023	181	45.82	170	40.609	130	46.75	244	41.988	138	48.25	12
20	29.405	173	20.30	237	24.204	218	44.12	177	40.739	173	44.31	218	42.126	167	48.13	30
März 2	29.578	216	17.93	199	24.422	253	42.35	180	40.912	215	42.13	181	42.293	196	47.83	49
12	29.794	255	15.94	155	24.675	286	40.55	180	41.127	254	40.32	139	42.489	224	47.34	70
22	30.049	291	14.39	103	24.961	315	38.75	178	41.381	288	38.93	89	42.713	249	46.64	89
Apr. 1	30.340	319	13.36	48	25.276	341	36.97	171	41.669	317	38.04	34	42.962	273	45.75	109
11	30.659	341	12.88	8	25.617	363	35.26	162	41.986	340	37.70	21	43.235	293	44.66	125
21	31.000	355	12.96	65	25.980	380	33.64	148	42.326	356	37.91	76	43.528	308	43.41	140
Mai 1	31.355	361	13.61	120	26.360	390	32.16	132	42.682	362	38.67	128	43.836	319	42.01	150
11	31.716	358	14.81	169	26.750	394	30.84	111	43.044	362	39.95	176	44.155	323	40.51	156
21	32.074	346	16.50	213	27.144	388	29.73	87	43.406	351	41.71	220	44.478	319	38.95	158
31	32.420	325	18.63	250	27.532	375	28.86	61	43.757	331	43.91	256	44.797	309	37.37	153
Juni 10	32.745	294	21.13	281	27.907	352	28.25	33	44.088	305	46.47	286	45.106	292	35.84	146
20	33.039	257	23.94	303	28.259	322	27.92	4	44.393	269	49.33	306	45.398	267	34.38	135
30	33.296	214	26.97	317	28.581	282	27.88	25	44.662	228	52.39	321	45.665	236	33.03	119
Juli 10	33.510	165	30.14	323	28.863	237	28.13	52	44.890	181	55.60	327	45.901	198	31.84	102
20	33.675	113	33.37	323	29.100	186	28.65	78	45.071	131	58.87	325	46.099	157	30.82	82
30	33.788	58	36.60	315	29.286	130	29.43	99	45.202	78	62.12	317	46.256	112	30.00	62
Aug. 8	33.846	4	39.75	299	29.416	72	30.42	117	45.280	25	65.29	302	46.368	66	29.38	41
18	33.850	48	42.74	279	29.488	16	31.59	130	45.305	25	68.31	281	46.434	21	28.97	22
28	33.802	97	45.53	252	29.504	37	32.89	135	45.280	73	71.12	255	46.455	22	28.75	5
Sept. 7	33.705	140	48.05	221	29.467	87	34.24	135	45.207	115	73.67	225	46.433	60	28.70	11
17	33.565	176	50.26	184	29.380	127	35.59	130	45.092	150	75.92	189	46.373	93	28.81	24
27	33.389	204	52.10	145	29.253	160	36.89	117	44.942	179	77.81	150	46.280	117	29.05	34
Okt. 7	33.185	223	53.55	102	29.093	182	38.06	99	44.763	198	79.31	109	46.163	135	29.39	42
17	32.962	233	54.57	57	28.911	191	39.05	77	44.565	208	80.40	66	46.028	142	29.81	46
27	32.729	234	55.14	9	28.720	190	39.82	52	44.357	210	81.06	20	45.886	141	30.27	49
Nov. 6	32.495	226	55.23	39	28.530	178	40.34	23	44.147	203	81.26	27	45.745	132	30.76	51
16	32.269	209	54.84	87	28.352	157	40.57	5	43.944	187	80.99	73	45.613	116	31.27	50
26	32.060	186	53.97	133	28.195	126	40.52	34	43.757	165	80.26	117	45.497	94	31.77	48
Dez. 6	31.874	155	52.64	176	28.069	91	40.18	61	43.592	137	79.09	159	45.403	67	32.25	46
16	31.719	119	50.88	214	27.978	51	39.57	86	43.455	103	77.50	195	45.336	37	32.71	42
26	31.600	80	48.74	245	27.927	8	38.71	108	43.352	66	75.55	225	45.299	6	33.13	37
36	31.520		46.29		27.919		37.63		43.286		73.30		45.293		33.50	
Mittl. Ort	31.517		34.70		26.034		36.00		42.755		57.94		43.724		36.48	
sec δ, tg δ	1.323		+0.866		1.285		−0.807		1.276		+0.793		1.021		−0.206	

[1]) Die jährliche Parallaxe (0.30″) ist bereits berücksichtigt.

Tag	795) Br 2777 AR.		795) Br 2777 Dekl.		797) ζ Cygni AR.		797) ζ Cygni Dekl.		800) α Equulei AR.		800) α Equulei Dekl.		803) α Cephei AR.		803) α Cephei Dekl.	
1929	21h 6m		+77° 49′		21h 9m		+29° 55′		21h 12m		+4° 56′		21h 16m		+62° 16′	
	s		″		s		″		s		″		s		″	
Jan. 1	51.29	61	84.54	271	52.730	40	63.35	222	14.593	5	64.62	120	50.09	22	67.19	271
11	50.68	44	81.83	305	52.690	4	61.13	235	14.588	26	63.42	120	49.87	14	64.48	301
21	50.24	25	78.78	327	52.686	34	58.78	239	14.614	58	62.22	114	49.73	7	61.47	319
31	49.99	5	75.51	335	52.720	72	56.39	234	14.672	89	61.08	103	49.66	1	58.28	326
Feb. 10	49.94	14	72.16	331	52.792	111	54.05	219	14.761	119	60.05	87	49.67	9	55.02	320
20	50.08	33	68.85	313	52.903	150	51.86	195	14.880	150	59.18	65	49.76	18	51.82	301
März 2	50.41	51	65.72	285	53.053	186	49.91	161	15.030	181	58.53	39	49.94	25	48.81	269
12	50.92	67	62.87	243	53.239	222	48.30	120	15.211	209	58.14	8	50.19	33	46.12	228
22	51.59	81	60.44	194	53.461	254	47.10	75	15.420	236	58.06	23	50.52	40	43.84	177
Apr. 1	52.40	92	58.50	138	53.715	282	46.35	27	15.656	260	58.29	57	50.92	45	42.07	121
11	53.32	99	57.12	76	53.997	305	46.08	25	15.916	281	58.86	89	51.37	48	40.86	60
21	54.31	103	56.36	14	54.302	322	46.33	75	16.197	298	59.75	118	51.85	51	40.26	3
Mai 1	55.34	104	56.22	49	54.624	331	47.08	121	16.495	308	60.93	146	52.36	53	40.29	65
11	56.38	101	56.71	109	54.955	333	48.29	165	16.803	312	62.39	167	52.89	52	40.94	123
21	57.39	95	57.80	166	55.288	326	49.94	203	17.115	310	64.06	186	53.41	50	42.17	179
31	58.34	86	59.46	216	55.614	312	51.97	235	17.425	299	65.92	196	53.91	47	43.96	228
Juni 10	59.20	74	61.62	262	55.926	289	54.32	260	17.724	282	67.88	203	54.38	42	46.24	271
20	59.94	62	64.24	298	56.215	259	56.92	277	18.006	258	69.91	203	54.80	36	48.95	306
30	60.56	47	67.22	328	56.474	223	59.69	289	18.264	227	71.94	198	55.16	30	52.01	333
Juli 10	61.03	30	70.50	348	56.697	181	62.58	291	18.491	190	73.92	189	55.46	23	55.34	351
20	61.33	14	73.98	362	56.878	136	65.49	288	18.681	150	75.81	176	55.69	15	58.85	362
30	61.47	3	77.60	367	57.014	87	68.37	279	18.831	106	77.57	158	55.84	6	62.47	365
Aug. 8*)	[8] 61.44	20	81.27	364	57.101	38	71.16	263	18.937	62	79.15	139	55.90	2	66.12	359
18	61.24	37	84.91	352	[9] 57.139	9	73.79	243	[10] 18.999	19	80.54	119	[11] 55.88	9	69.71	345
28	60.87	52	88.43	335	57.130	53	76.22	219	19.018	23	81.73	96	55.79	17	73.16	325
Sept. 7	60.35	66	91.78	309	57.077	93	78.41	189	18.995	60	82.69	73	55.62	24	76.41	298
17	59.69	79	94.87	277	56.984	128	80.30	157	18.935	92	83.42	51	55.38	30	79.39	264
27	58.90	89	97.64	239	56.856	154	81.87	122	18.843	116	83.93	29	55.08	34	82.03	225
Okt. 7	58.01	98	100.03	194	56.702	173	83.09	86	18.727	132	84.22	8	54.74	39	84.28	180
17	57.03	104	101.97	146	56.529	184	83.95	46	18.595	141	84.30	13	54.35	42	86.08	130
27	55.99	108	103.43	91	56.345	185	84.41	6	18.454	142	84.17	32	53.93	43	87.38	77
Nov. 6	54.91	108	104.34	34	56.160	179	84.47	35	18.312	134	83.85	51	53.50	43	88.15	22
16	53.83	107	104.68	25	55.981	166	84.12	75	18.178	121	83.34	68	53.07	42	88.37	36
26	52.76	102	104.43	84	55.815	146	83.37	113	18.057	101	82.66	83	52.65	39	88.01	94
Dez. 6	51.74	94	103.59	142	55.669	122	82.24	150	17.956	78	81.83	97	52.26	36	87.07	149
16	50.80	83	102.17	197	55.547	92	80.74	181	17.878	50	80.86	108	51.90	32	85.58	200
26	49.97	70	100.20	242	55.455	59	78.93	207	17.828	21	79.78	115	51.58	26	83.58	244
36	49.27		97.78		55.396		76.86		17.807		78.63		51.32		81.14	
Mittl. Ort	57.12		79.90		54.803		65.47		16.513		72.07		53.16		63.47	
sec δ, tg δ	4.747		+4.640		1.154		+0.576		1.004		+0.087		2.150		+1.903	

*) Bei Stern 797), 800) und 803) lies Aug. 9

Tag	804) ι Pegasi				805) γ Pavonis				806) ζ Capricorni				809) β Cephei			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
1929	21h 18m		+19° 29′		21h 20m		−65° 41′		21h 22m		−22° 43′		21h 27m		+70° 14′	
Jan. 1	46.188	28	55.30	179	32.26	9	39.71	247	35.044	3	25.15	27	41.24	37	60.98	258
11	46.160	4	53.51	188	32.17	0	37.24	274	35.041	31	24.88	41	40.87	27	58.40	294
21	46.164	38	51.63	189	32.17	7	34.50	293	35.072	64	24.47	55	40.60	17	55.46	318
31	46.202	71	49.74	182	32.24	16	31.57	305	35.136	97	23.92	71	40.43	6	52.28	329
Feb. 10	46.273	106	47.92	167	32.40	24	28.52	309	35.233	129	23.21	85	40.37	6	48.99	329
20	46.379	140	46.25	143	32.64	32	25.43	307	35.362	162	22.36	101	40.43	18	45.70	314
März 2	46.519	174	44.82	113	32.96	39	22.36	299	35.524	192	21.35	115	40.61	30	42.56	288
12	46.693	206	43.69	77	33.35	46	19.37	283	35.716	223	20.20	128	40.91	40	39.68	250
22	46.899	236	42.92	37	33.81	51	16.54	263	35.939	252	18.92	141	41.31	49	37.18	203
Apr. 1	47.135	263	42.55	5	34.32	56	13.91	238	36.191	278	17.51	150	41.80	57	35.15	148
11	47.398	286	42.60	49	34.88	61	11.53	206	36.469	301	16.01	157	42.37	63	33.67	88
21	47.684	304	43.09	91	35.49	64	9.47	172	36.770	320	14.44	161	43.00	67	32.79	26
Mai 1	47.988	315	44.00	131	36.13	66	7.75	133	37.090	334	12.83	160	43.67	68	32.53	36
11	48.303	319	45.31	167	36.79	67	6.42	92	37.424	341	11.23	155	44.35	68	32.89	98
21	48.622	316	46.98	196	37.46	67	5.50	48	37.765	341	9.68	146	45.03	66	33.87	155
31	48.938	305	48.94	221	38.13	65	5.02	3	38.106	334	8.22	132	45.69	61	35.42	208
Juni 10	49.243	287	51.15	239	38.78	61	4.99	41	38.440	318	6.90	116	46.30	55	37.50	254
20	49.530	261	53.54	251	39.39	56	5.40	85	38.758	294	5.74	95	46.85	48	40.04	293
30	49.791	228	56.05	255	39.95	50	6.25	125	39.052	264	4.79	73	47.33	39	42.97	324
Juli 10	50.019	191	58.60	254	40.45	42	7.50	162	39.316	226	4.06	49	47.72	29	46.21	348
20	50.210	148	61.14	248	40.87	33	9.12	194	39.542	184	3.57	25	48.01	19	49.69	363
30	50.358	104	63.62	235	41.20	24	11.06	219	39.726	138	3.32	1	48.20	8	53.32	371
Aug. 9	50.462	59	65.97	218	41.44	14	13.25	236	39.864	89	3.31	21	48.28	2	57.03	369
18	50.521	13	68.15	198	41.58	3	15.61	245	39.953	41	3.52	39	48.26	13	60.72	360
28	50.534	30	70.13	174	41.61	7	18.06	245	39.994	6	3.91	56	48.13	24	64.32	344
Sept. 7	50.504	67	71.87	147	41.54	16	20.51	235	39.988	48	4.47	67	47.89	33	67.76	321
17	50.437	101	73.34	119	41.38	24	22.86	214	39.940	85	5.14	75	47.56	41	70.97	290
27	50.336	126	74.53	89	41.14	32	25.00	186	39.855	113	5.89	78	47.15	48	73.87	252
Okt. 7	50.210	145	75.42	58	40.82	37	26.86	149	39.742	135	6.67	77	46.67	54	76.39	211
17	50.065	155	76.00	26	40.45	41	28.35	106	39.607	146	7.44	71	46.13	58	78.50	161
27	49.910	158	76.26	6	40.04	42	29.41	57	39.461	149	8.15	63	45.55	62	80.11	109
Nov. 6	49.752	152	76.20	38	39.62	41	29.98	6	39.312	142	8.78	51	44.93	63	81.20	52
16	49.600	140	75.82	69	39.21	38	30.04	47	39.170	129	9.29	39	44.30	62	81.72	6
26	49.460	123	75.13	99	38.83	35	29.57	99	39.041	107	9.68	25	43.68	60	81.66	66
Dez. 6	49.337	99	74.14	126	38.48	29	28.58	147	38.934	82	9.93	10	43.08	55	81.00	125
16	49.238	74	72.88	149	38.19	21	27.11	191	38.852	53	10.03	5	42.53	50	79.75	180
26	49.164	44	71.39	168	37.98	14	25.20	229	38.799	20	9.98	20	42.03	42	77.95	228
36	49.120		69.71		37.84		22.91		38.779		9.78		41.61		75.67	
Mittl. Ort	48.140		59.40		35.66		20.02		37.014		11.56		45.09		55.66	
sec δ, tg δ	1.061		+0.354		2.429		−2.214		1.084		−0.419		2.959		+2.785	

Tag	808) β Aquarii AR.		808) β Aquarii Dekl.		810) ν Octantis AR.		810) ν Octantis Dekl.		811) 74 Cygni AR.		811) 74 Cygni Dekl.		815) ε Pegasi AR.		815) ε Pegasi Dekl.	
1929	21h 27m		−5° 52′		21h 33m		−77° 42′		21h 34m		+40° 5′		21h 40m		+9° 32′	
Jan. 1	47.485	10	73.75	62	33.40	33	46.38	283	3.935	91	38.79	230	40.094	31	49.03	130
11	47.475	20	74.37	56	33.07	16	43.55	313	3.844	53	36.49	253	40.063	3	47.73	133
21	47.495	50	74.93	47	32.91	0	40.42	334	3.791	12	33.96	266	40.060	26	46.40	131
31	47.545	80	75.40	33	32.91	17	37.08	347	3.779	33	31.30	267	40.086	57	45.09	122
Feb. 10	47.625	111	75.73	18	33.08	34	33.61	351	3.812	78	28.63	258	40.143	88	43.87	108
20	47.736	141	75.91	2	33.42	49	30.10	345	3.890	124	26.05	239	40.231	120	42.79	87
März 2	47.877	171	75.89	24	33.91	63	26.65	334	4.014	170	23.66	208	40.351	153	41.92	61
12	48.048	200	75.65	48	34.54	77	23.31	315	4.184	214	21.58	170	40.504	185	41.31	30
22	48.248	229	75.17	72	35.31	89	20.16	288	4.398	254	19.88	125	40.689	215	41.01	4
Apr. 1	48.477	255	74.45	97	36.20	99	17.28	257	4.652	291	18.63	73	40.904	244	41.05	38
11	48.732	277	73.48	119	37.19	108	14.71	220	4.943	321	17.90	20	41.148	270	41.43	74
21	49.009	297	72.29	139	38.27	114	12.51	178	5.264	343	17.70	36	41.418	290	42.17	108
Mai 1	49.306	310	70.90	155	39.41	118	10.73	134	5.607	359	18.06	89	41.708	305	43.25	139
11	49.616	317	69.35	168	40.59	120	9.39	86	5.966	364	18.95	139	42.013	314	44.64	166
21	49.933	318	67.67	175	41.79	120	8.53	35	6.330	360	20.34	186	42.327	315	46.30	188
31	50.251	311	65.92	177	42.99	117	8.18	14	6.690	347	22.20	226	42.642	309	48.18	205
Juni 10	50.562	296	64.15	174	44.16	110	8.32	65	7.037	324	24.46	260	42.951	295	50.23	217
20	50.858	274	62.41	166	45.26	102	8.97	112	7.361	294	27.06	286	43.246	274	52.40	221
30	51.132	246	60.75	155	46.28	90	10.09	157	7.655	256	29.92	306	43.520	246	54.61	221
Juli 10	51.378	211	59.20	140	47.18	77	11.66	198	7.911	211	32.98	318	43.766	212	56.82	215
20	51.589	171	57.80	121	47.95	61	13.64	231	8.122	163	36.16	322	43.978	173	58.97	204
30	51.760	128	56.59	102	48.56	44	15.95	258	8.285	111	39.38	319	44.151	131	61.01	190
Aug. 9	51.888	84	55.57	80	49.00	25	18.53	275	8.396	57	42.57	309	44.282	87	62.91	171
18	51.972	39	54.77	60	49.25	6	21.28	284	8.453	6	45.66	293	44.369	43	64.62	151
28	52.011	3	54.17	39	49.31	14	24.12	281	8.459	45	48.59	272	44.412	1	66.13	128
Sept. 7	52.008	42	53.78	20	49.17	32	26.93	269	8.414	91	51.31	244	44.413	38	67.41	105
17	51.966	76	53.58	2	48.85	48	29.62	246	8.323	131	53.75	213	44.375	71	68.46	80
27	51.890	102	53.56	13	48.37	63	32.08	212	8.192	163	55.88	177	44.304	99	69.26	56
Okt. 7	51.788	121	53.69	26	47.74	75	34.20	171	8.029	189	57.65	138	44.205	120	69.82	31
17	51.667	133	53.95	37	46.99	83	35.91	120	7.840	206	59.03	95	44.085	132	70.13	7
27	51.534	135	54.32	46	46.16	88	37.11	64	7.634	214	59.98	50	43.953	137	70.20	15
Nov. 6	51.399	130	54.78	52	45.28	89	37.75	6	7.420	214	60.48	4	43.816	135	70.05	38
16	51.269	119	55.30	58	44.39	85	37.81	54	7.206	207	60.52	44	43.681	127	69.67	60
26	51.150	101	55.88	61	43.54	79	37.27	113	6.999	191	60.08	90	43.554	112	69.07	79
Dez. 6	51.049	78	56.49	64	42.75	69	36.14	169	6.808	170	59.18	135	43.442	94	68.28	96
16	50.971	53	57.13	64	42.06	57	34.45	219	6.638	144	57.83	175	43.348	71	67.32	112
26	50.918	26	57.77	62	41.49	43	32.26	262	6.494	111	56.08	210	43.277	46	66.20	122
36	50.892		58.39		41.06		29.64		6.383		53.98		43.231		64.98	
Mittl. Ort	49.350		63.80		38.81		25.28		6.084		37.91		41.919		55.15	
sec δ, tg δ	1.005		−0.103		4.697		−4.589		1.307		+0.842		1.014		+0.168	

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Tag	819) δ Capricorni				821) π^2 Cygni				822) γ Gruis				823) 16 Pegasi			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
1929	21h 43m		−16° 26′		21h 44m		+48° 58′		21h 49m		−37° 41′		21h 49m		+25° 35′	
	s		″		s		″		s		″		s		″	
Jan. 1	5.636	20	73.76	8	7.783	143	52.44	236	36.111	40	76.22	100	47.927	63	23.57	182
11	5.616	10	73.84	5	7.640	98	50.08	264	36.071	2	75.22	125	47.864	34	21.75	197
21	5.626	40	73.79	19	7.542	50	47.44	284	36.069	35	73.97	146	47.830	1	19.78	205
31	5.666	71	73.60	35	7.492	3	44.60	291	36.104	73	72.51	166	47.829	33	17.73	202
Feb. 10	5.737	102	73.25	52	7.495	58	41.69	287	36.177	111	70.85	182	47.862	69	15.71	192
20	5.839	133	72.73	69	7.553	113	38.82	271	36.288	150	69.03	195	47.931	107	13.79	174
März 2	5.972	165	72.04	87	7.666	169	36.11	243	36.438	187	67.08	206	48.038	144	12.05	145
12	6.137	196	71.17	105	7.835	223	33.68	207	36.625	225	65.02	211	48.182	181	10.60	112
22	6.333	227	70.12	124	8.058	273	31.61	161	36.850	260	62.91	214	48.363	217	9.48	72
Apr. 1	6.560	255	68.88	139	8.331	316	30.00	110	37.110	294	60.77	213	48.580	250	8.76	28
11	6.815	280	67.49	152	8.647	353	28.90	53	37.404	324	58.64	208	48.830	279	8.48	17
21	7.095	301	65.97	162	9.000	381	28.37	4	37.728	350	56.56	198	49.109	302	8.65	63
Mai 1	7.396	319	64.35	169	9.381	399	28.41	62	38.078	371	54.58	184	49.411	319	9.28	107
11	7.715	329	62.66	170	9.780	406	29.03	117	38.449	383	52.74	164	49.730	329	10.35	149
21	8.044	332	60.96	167	10.186	402	30.20	169	38.832	389	51.10	142	50.059	330	11.84	185
31	8.376	327	59.29	160	10.588	388	31.89	215	39.221	385	49.68	115	50.389	323	13.69	215
Juni 10	8.703	316	57.69	148	10.976	363	34.04	255	39.606	373	48.53	85	50.712	308	15.84	241
20	9.019	296	56.21	131	11.339	329	36.59	288	39.979	351	47.68	53	51.020	286	18.25	259
30	9.315	268	54.90	112	11.668	285	39.47	314	40.330	320	47.15	20	51.306	256	20.84	270
Juli 10	9.583	235	53.78	91	11.953	237	42.61	331	40.650	282	46.95	13	51.562	219	23.54	276
20	9.818	195	52.87	68	12.190	181	45.92	341	40.932	236	47.08	45	51.781	178	26.30	274
30	10.013	151	52.19	44	12.371	122	49.33	344	41.168	185	47.53	74	51.959	133	29.04	266
Aug. 9	10.164	106	51.75	20	12.493	63	52.77	338	41.353	131	48.27	100	52.092	87	31.70	254
18*)	[17] 10.270	59	51.55	1	[18] 12.556	4	56.15	326	[19] 41.484	76	49.27	121	[19] 52.179	41	34.24	237
28	10.329	14	51.56	21	12.560	53	59.41	307	41.560	21	50.48	136	52.220	3	36.61	214
Sept. 7	10.343	27	51.77	37	12.507	105	62.48	283	41.581	31	51.84	146	52.217	45	38.75	189
17	10.316	63	52.14	51	12.402	153	65.31	252	41.550	77	53.30	147	52.172	81	40.64	161
27	10.253	94	52.65	59	12.249	192	67.83	216	41.473	115	54.77	143	52.091	111	42.25	131
Okt. 7	10.159	116	53.24	65	12.057	223	69.99	175	41.358	146	56.20	131	51.980	134	43.56	97
17	10.043	131	53.89	66	11.834	246	71.74	131	41.212	166	57.51	114	51.846	150	44.53	63
27	9.912	136	54.55	64	11.588	260	73.05	82	41.046	175	58.65	91	51.696	158	45.16	27
Nov. 6	9.776	133	55.19	60	11.328	264	73.87	32	40.871	176	59.56	65	51.538	159	45.43	9
16	9.643	123	55.79	54	11.064	260	74.19	20	40.695	165	60.21	35	51.379	154	45.34	44
26	9.520	108	56.33	45	10.804	248	73.99	72	40.530	148	60.56	5	51.225	141	44.90	79
Dez. 6	9.412	87	56.78	36	10.556	226	73.27	122	40.382	123	60.61	27	51.084	125	44.11	113
16	9.325	63	57.14	25	10.330	199	72.05	170	40.259	94	60.34	57	50.959	103	42.98	142
26	9.262	35	57.39	13	10.131	164	70.35	211	40.165	59	59.77	85	50.856	78	41.56	167
36	9.227		57.52		9.967		68.24		40.106		58.92		50.778		39.89	
Mittl. Ort	7.462		61.13		10.109		49.35		38.086		58.80		49.817		25.44	
sec δ, tg δ	1.043		−0.295		1.524		+1.150		1.264		−0.773		1.109		+0.479	

*) Bei Stern 822) und 823) lies Aug. 19

Tag	827) α Aquarii AR.		Dekl.		828) ι Aquarii AR.		Dekl.		830) 20 Cephei AR.		Dekl.		829) α Gruis AR.		Dekl.	
1929	22h 2m		−0° 39′		22h 2m		−14° 12′		22h 2m		+62° 25′		22h 3m		−47° 18′	
Jan. 1	6.558	38	64.39	80	34.567	36	65.65	18	48.10	28	86.17	223	43.964	76	40.86	140
11	6.520	13	65.19	76	34.531	9	65.83	6	47.82	23	83.94	262	43.888	34	39.46	171
21	6.507	14	65.95	69	34.522	20	65.89	9	47.59	15	81.32	291	43.854	10	37.75	197
31	6.521	42	66.64	57	34.542	49	65.80	24	47.44	8	78.41	308	43.864	55	35.78	220
Feb. 10	6.563	72	67.21	42	34.591	79	65.56	42	47.36	0	75.33	314	43.919	100	33.58	236
20	6.635	103	67.63	23	34.670	111	65.14	62	47.36	8	72.19	306	44.019	146	31.22	249
März 2	6.738	136	67.86	0	34.781	142	64.52	81	47.44	17	69.13	286	44.165	191	28.73	257
12	6.874	168	67.86	27	34.923	175	63.71	101	47.61	25	66.27	255	44.356	235	26.16	259
22	7.042	199	67.59	53	35.098	207	62.70	120	47.86	33	63.72	213	44.591	277	23.57	258
Apr. 1	7.241	229	67.06	81	35.305	237	61.50	138	48.19	39	61.59	164	44.868	318	20.99	250
11	7.470	257	66.25	109	35.542	265	60.12	154	48.58	45	59.95	108	45.186	354	18.49	237
21	7.727	281	65.16	133	35.807	290	58.58	167	49.03	49	58.87	49	45.540	386	16.12	220
Mai 1	8.008	299	63.83	155	36.097	309	56.91	176	49.52	52	58.38	13	45.926	412	13.92	198
11	8.307	313	62.28	173	36.406	322	55.15	181	50.04	53	58.51	72	46.338	430	11.94	172
21	8.620	317	60.55	186	36.728	329	53.34	180	50.57	53	59.23	129	46.768	438	10.22	140
31	8.937	316	58.69	194	37.057	328	51.54	174	51.10	51	60.52	182	47.206	437	8.82	105
Juni 10	9.253	306	56.75	197	37.385	319	49.80	164	51.61	48	62.34	231	47.643	425	7.77	68
20	9.559	289	54.78	193	37.704	301	48.16	150	52.09	44	64.65	273	48.068	404	7.09	29
30	9.848	265	52.85	186	38.005	277	46.66	132	52.53	38	67.38	307	48.472	373	6.80	10
Juli 10	10.113	233	50.99	174	38.282	246	45.34	111	52.91	32	70.45	334	48.845	331	6.90	49
20	10.346	197	49.25	158	38.528	208	44.23	88	53.23	24	73.79	353	49.176	281	7.39	85
30	10.543	156	47.67	139	38.736	167	43.35	64	53.47	17	77.32	364	49.457	224	8.24	118
Aug. 9	10.699	113	46.28	119	38.903	123	42.71	39	53.64	8	80.96	367	49.681	163	9.42	146
19	10.812	70	45.09	97	39.026	77	42.32	16	53.72	1	84.63	363	49.844	100	10.88	169
28	10.882	27	44.12	74	39.103	32	42.16	6	53.73	7	88.26	351	49.944	37	12.57	184
Sept. 7	10.909	12	43.38	52	39.135	9	42.22	25	53.66	14	91.77	331	49.981	25	14.41	191
17	10.897	48	42.86	32	39.126	47	42.47	40	53.52	21	95.08	305	49.956	80	16.32	191
27	10.849	77	42.54	12	39.079	78	42.87	52	53.31	27	98.13	273	49.876	129	18.23	182
Okt. 7	10.772	100	42.42	6	39.001	102	43.39	60	53.04	32	100.86	233	49.747	167	20.05	165
17	10.672	116	42.48	22	38.899	119	43.99	65	52.72	36	103.19	189	49.580	195	21.70	141
27	10.556	124	42.70	35	38.780	128	44.64	65	52.36	39	105.08	140	49.385	211	23.11	110
Nov. 6	10.432	125	43.05	47	38.652	129	45.29	64	51.97	40	106.48	87	49.174	216	24.21	74
16	10.307	120	43.52	58	38.523	123	45.93	59	51.57	41	107.35	29	48.958	209	24.95	36
26	10.187	108	44.10	65	38.400	110	46.52	53	51.16	41	107.64	28	48.749	193	25.31	4
Dez. 6	10.079	93	44.75	72	38.290	94	47.05	44	50.75	38	107.36	86	48.556	168	25.27	45
16	9.986	74	45.47	77	38.196	73	47.49	35	50.37	35	106.50	141	48.388	137	24.82	84
26	9.912	51	46.24	78	38.123	49	47.84	23	50.02	32	105.09	192	48.251	99	23.98	121
36	9.861		47.02		38.074		48.07		49.70		103.17		48.152		22.77	
Mittl. Ort	8.270		55.73		36.285		53.34		50.95		79.80		45.994		21.21	
sec δ, tg δ	1.000		−0.012		1.032		−0.253		2.161		+1.916		1.475		−1.084	

Scheinbare Sternörter 1929

Tag	834) ϑ Pegasi				835) π Pegasi				836) ζ Cephei				837) 24 Cephei			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
1929	22h 6m		+5° 50'		22h 6m		+32° 49'		22h 8m		+57° 50'		22h 8m		+71° 59'	
	s		"		s		"		s		"		s		"	
Jan. 1	35.400	46	45.55	105	48.018	94	45.70	189	20.731	236	68.73	217	22.97	50	36.37	211
11	35.354	21	44.50	107	47.924	64	43.81	210	20.495	186	66.56	255	22.47	41	34.26	255
21	35.333	6	43.43	103	47.860	31	41.71	224	20.309	128	64.01	282	22.06	30	31.71	289
31	35.339	34	42.40	94	47.829	6	39.47	228	20.181	65	61.19	299	21.76	19	28.82	313
Feb. 10	35.373	64	41.46	81	47.835	45	37.19	222	20.116	3	58.20	304	21.57	6	25.69	322
20	35.437	97	40.65	61	47.880	86	34.97	207	20.119	76	55.16	297	21.51	7	22.47	320
März 2	35.534	129	40.04	37	47.966	128	32.90	183	20.195	148	52.19	276	21.58	20	19.27	306
12	35.663	162	39.67	10	48.094	169	31.07	149	20.343	219	49.43	245	21.78	32	16.22	279
22	35.825	195	39.57	21	48.263	210	29.58	110	20.562	285	46.98	204	22.10	44	13.46	231
April 1	36.020	226	39.78	53	48.473	248	28.48	65	20.847	344	44.94	155	22.54	55	11.07	195
11	36.246	255	40.31	85	48.721	282	27.83	17	21.191	395	43.39	101	23.09	63	9.16	136
21	36.501	279	41.16	115	49.003	310	27.66	32	21.586	435	42.38	43	23.72	68	7.80	77
Mai 1	36.780	298	42.31	143	49.313	330	27.98	81	22.021	462	41.95	16	24.40	73	7.03	17
11	37.078	312	43.74	167	49.643	343	28.79	127	22.483	477	42.11	76	25.13	74	6.86	44
21	37.390	317	45.41	187	49.986	347	30.06	169	22.960	478	42.87	131	25.87	74	7.30	105
31	37.707	316	47.28	201	50.333	342	31.75	207	23.438	465	44.18	184	26.61	72	8.35	160
Juni 10	38.023	306	49.29	209	50.675	328	33.82	239	23.903	440	46.02	230	27.33	66	9.95	212
20	38.329	290	51.38	213	51.003	306	36.21	263	24.343	403	48.32	271	27.99	60	12.07	257
30	38.619	265	53.51	210	51.309	276	38.84	282	24.746	355	51.03	304	28.59	52	14.64	297
Juli 10	38.884	233	55.61	203	51.585	239	41.66	293	25.101	300	54.07	329	29.11	43	17.61	327
20	39.117	197	57.64	191	51.824	198	44.59	298	25.401	237	57.36	348	29.54	33	20.88	352
30	39.314	158	59.55	175	52.022	151	47.57	295	25.638	169	60.84	358	29.87	21	24.40	367
Aug. 9	39.472	115	61.30	156	52.173	104	50.52	287	25.807	100	64.42	360	30.08	10	28.07	375
19	39.587	71	62.86	135	52.277	55	53.39	273	25.907	29	68.02	355	30.18	2	31.82	375
28	39.658	29	64.21	113	52.332	8	56.12	254	25.936	39	71.57	342	30.16	12	35.57	367
Sept. 7	39.687	10	65.34	90	52.340	36	58.66	230	25.897	104	74.99	323	30.04	23	39.24	352
17	39.677	46	66.24	67	52.304	75	60.96	202	25.793	162	78.22	297	29.81	34	42.76	329
27	39.631	76	66.91	44	52.229	109	62.98	171	25.631	215	81.19	265	29.47	42	46.05	299
Okt. 7	39.555	99	67.35	23	52.120	136	64.69	137	25.416	259	83.84	226	29.05	50	49.04	262
17	39.456	114	67.58	2	51.984	156	66.06	99	25.157	294	86.10	183	28.55	56	51.66	219
27	39.342	124	67.60	18	51.828	168	67.05	60	24.863	320	87.93	134	27.99	61	53.85	170
Nov. 6	39.218	126	67.42	36	51.660	173	67.65	20	24.543	334	89.27	83	27.38	65	55.55	116
16	39.092	122	67.06	53	51.487	172	67.85	21	24.209	339	90.10	28	26.73	67	56.71	59
26	38.970	111	66.53	68	51.315	163	67.64	62	23.870	335	90.38	29	26.06	66	57.30	2
Dez. 6	38.859	98	65.85	82	51.152	150	67.02	101	23.535	319	90.09	85	25.40	64	57.28	63
16	38.761	79	65.03	93	51.002	132	66.01	138	23.216	293	89.24	138	24.76	61	56.65	122
26	38.682	58	64.10	99	50.870	107	64.63	170	22.923	259	87.86	187	24.15	54	55.43	177
36	38.624		63.11		50.763		62.93		22.664		85.99		23.61		53.66	
Mittl. Ort	37.104		52.36		49.922		45.21		23.282		62.81		26.78		28.42	
sec δ, tg δ	1.005		+0.102		1.190		+0.645		1.879		+1.591		3.235		+3.076	

Tag	840) ϑ Aquarii AR.		840) ϑ Aquarii Dekl.		841) α Tucanae AR.		841) α Tucanae Dekl.		842) γ Aquarii AR.		842) γ Aquarii Dekl.		844) 3 Lacertae AR.		844) 3 Lacertae Dekl.	
1929	22h 13m		−8° 8′		22h 13m		−60° 36′		22h 17m		−1° 44′		22h 20m		+51° 52′	
Jan. 1	3.660	44	25.61	46	36.85	15	73.66	193	57.744	49	53.74	72	43.623	195	27.41	202
11	3.616	19	26.07	37	36.70	10	71.73	229	57.695	25	54.46	67	43.428	155	25.39	238
21	3.597	8	26.44	25	36.60	4	69.44	260	57.670	0	55.13	60	43.273	110	23.01	265
31	3.605	36	26.69	10	36.56	3	66.84	283	57.670	27	55.73	48	43.163	58	20.36	282
Feb. 10	3.641	65	26.79	6	36.59	10	64.01	301	57.697	57	56.21	32	43.105	1	17.54	286
20	3.706	96	26.73	25	36.69	16	61.00	311	57.754	88	56.53	13	43.104	58	14.68	280
März 2	3.802	128	26.48	47	36.85	22	57.89	315	57.842	121	56.66	10	43.162	120	11.88	261
12	3.930	161	26.01	70	37.07	28	54.74	311	57.963	153	56.56	34	43.282	182	9.27	231
22	4.091	193	25.31	93	37.35	34	51.63	302	58.116	186	56.22	61	43.464	240	6.96	193
Apr. 1	4.284	224	24.38	116	37.69	40	48.61	287	58.302	218	55.61	88	43.704	294	5.03	146
11	4.508	254	23.22	137	38.09	45	45.74	266	58.520	247	54.73	114	43.998	340	3.57	94
21	4.762	279	21.85	155	38.54	50	43.08	239	58.767	274	53.59	138	44.338	380	2.63	38
Mai 1	5.041	299	20.30	170	39.04	53	40.69	206	59.041	295	52.21	158	44.718	408	2.25	19
11	5.340	315	18.60	181	39.57	55	38.63	170	59.336	310	50.63	176	45.126	424	2.44	75
21	5.655	322	16.79	187	40.12	56	36.93	128	59.646	318	48.87	189	45.550	431	3.19	129
31	5.977	323	14.92	188	40.68	57	35.65	86	59.964	319	46.98	195	45.981	424	4.48	179
Juni 10	6.300	315	13.04	183	41.25	55	34.79	40	60.283	312	45.03	197	46.405	406	6.27	224
20	6.615	300	11.21	174	41.80	53	34.39	7	60.595	297	43.06	194	46.811	378	8.51	263
30	6.915	276	9.47	160	42.33	49	34.46	52	60.892	275	41.12	185	47.189	339	11.14	294
Juli 10	7.191	247	7.87	144	42.82	44	34.98	97	61.167	245	39.27	173	47.528	293	14.08	319
20	7.438	211	6.43	123	43.26	37	35.95	137	61.412	211	37.54	157	47.821	239	17.27	336
30	7.649	171	5.20	101	43.63	30	37.32	174	61.623	171	35.97	137	48.060	182	20.63	345
Aug. 9	7.820	129	4.19	77	43.93	22	39.06	202	61.794	129	34.60	116	48.242	121	24.08	347
19	7.949	84	3.42	54	44.15	13	41.08	225	61.923	86	33.44	93	48.363	60	27.55	342
28	[25] 8.033	41	2.88	32	[25] 44.28	5	43.33	239	[26] 62.009	43	32.51	70	[27] 48.423	1	30.97	330
Sept. 7	8.074	0	2.56	11	44.33	3	45.72	243	62.052	3	31.81	48	48.422	57	34.27	311
17	8.074	36	2.45	9	44.30	12	48.15	237	62.055	33	31.33	27	48.365	110	37.38	286
27	8.038	68	2.54	24	44.18	19	50.52	223	62.022	64	31.06	8	48.255	157	40.24	254
Okt. 7	7.970	93	2.78	37	43.99	24	52.75	197	61.958	88	30.98	10	48.098	196	42.78	218
17	7.877	110	3.15	47	43.75	29	54.72	164	61.870	106	31.08	25	47.902	227	44.96	177
27	7.767	120	3.62	54	43.46	31	56.36	124	61.764	117	31.33	37	47.675	251	46.73	132
Nov. 6	7.647	122	4.16	58	43.15	33	57.60	77	61.647	120	31.70	48	47.424	265	48.05	81
16	7.525	119	4.74	61	42.82	33	58.37	28	61.527	118	32.18	57	47.159	271	48.86	30
26	7.406	109	5.35	60	42.49	31	58.65	24	61.409	110	32.75	64	46.888	269	49.16	23
Dez. 6	7.297	95	5.95	58	42.18	28	58.41	74	61.299	96	33.39	68	46.619	258	48.93	76
16	7.202	77	6.53	54	41.90	24	57.67	124	61.203	80	34.07	71	46.361	240	48.17	127
26	7.125	56	7.07	48	41.66	19	56.43	169	61.123	60	34.78	71	46.121	211	46.90	174
36	7.069		7.55		41.47		54.74		61.063		35.49		45.910		45.16	
Mittl. Ort	5.315		14.89		39.18		51.72		59.378		44.84		45.867		22.01	
sec δ, tg δ	1.010		−0.143		2.038		−1.776		1.000		−0.030		1.620		+1.274	

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Tag	848) 7 Lacertae AR.		848) 7 Lacertae Dekl.		850) η Aquarii AR.		850) η Aquarii Dekl.	
1929	22ʰ 28ᵐ		+49° 54′		22ʰ 31ᵐ		−0° 28′	
Jan. 1	19.624	187	66.47	193	40.939	58	70.94	75
11	19.437	151	64.54	229	40.881	36	71.69	71
21	19.286	108	62.25	255	40.845	13	72.40	64
31	19.178	61	59.70	272	40.832	14	73.04	52
Feb. 10	19.117	7	56.98	278	40.846	42	73.56	38
20	19.110	49	54.20	272	40.888	73	73.94	18
März 2	19.159	108	51.48	255	40.961	106	74.12	4
12	19.267	167	48.93	226	41.067	139	74.08	28
22	19.434	225	46.67	189	41.206	174	73.80	55
Apr. 1	19.659	277	44.78	144	41.380	207	73.25	83
11	19.936	324	43.34	93	41.587	238	72.42	110
21	20.260	363	42.41	38	41.825	266	71.32	135
Mai 1	20.623	392	42.03	17	42.091	289	69.97	157
11	21.015	411	42.20	73	42.380	307	68.40	175
21	21.426	419	42.93	126	42.687	317	66.65	189
31	21.845	416	44.19	175	43.004	320	64.76	198
Juni 10	22.261	400	45.94	219	43.324	314	62.78	202
20	22.661	375	48.13	258	43.638	302	60.76	199
30	23.036	339	50.71	290	43.940	282	58.77	192
Juli 10	23.375	296	53.61	313	44.222	253	56.85	181
20	23.671	246	56.74	332	44.475	221	55.04	166
30	23.917	191	60.06	340	44.696	182	53.38	146
Aug. 9	24.108	133	63.46	342	44.878	142	51.92	125
19	24.241	74	66.88	339	45.020	98	50.67	103
29	24.315	16	70.27	326	45.118	56	49.64	80
Sept. 7	24.331	39	73.53	308	45.174	16	48.84	57
17	24.292	90	76.61	283	45.190	21	48.27	35
27	24.202	135	79.44	254	45.169	52	47.92	15
Okt. 7	24.067	174	81.98	218	45.117	78	47.77	4
17	23.893	206	84.16	179	45.039	98	47.81	19
27	23.687	228	85.95	133	44.941	110	48.00	34
Nov. 6	23.459	244	87.28	86	44.831	116	48.34	45
16	23.215	251	88.14	35	44.715	115	48.79	56
26	22.964	251	88.49	17	44.600	110	49.35	63
Dez. 6	22.713	242	88.32	68	44.490	100	49.98	69
16	22.471	226	87.64	118	44.390	86	50.67	72
26	22.245	201	86.46	165	44.304	68	51.39	74
36	22.044		84.81		44.236		52.13	
Mittl. Ort	21.767		61.11		42.508		62.51	
sec δ, tg δ	1.553		+1.188		1.000		−0.008	

Tag	852) 10 Lacertae AR.		852) 10 Lacertae Dekl.		855) ζ Pegasi AR.		855) ζ Pegasi Dekl.	
1929	22ʰ 36ᵐ		+38° 40′		22ʰ 37ᵐ		+10° 27′	
Jan. 1	2.485	134	51.94	174	53.638	70	31.66	110
11	2.351	107	50.20	204	53.568	50	30.56	116
21	2.244	74	48.16	224	53.518	26	29.40	116
31	2.170	38	45.92	236	53.492	1	28.24	111
Feb. 10	2.132	4	43.56	237	53.493	30	27.13	100
20	2.136	48	41.19	229	53.523	62	26.13	84
März 2	2.184	94	38.90	211	53.585	96	25.29	61
12	2.278	143	36.79	182	53.681	132	24.68	35
22	2.421	190	34.97	146	53.813	167	24.33	4
Apr. 1	2.611	234	33.51	104	53.980	202	24.29	28
11	2.845	275	32.47	57	54.182	236	24.57	63
21	3.120	310	31.90	7	54.418	264	25.20	96
Mai 1	3.430	338	31.83	44	54.682	289	26.16	128
11	3.768	357	32.27	93	54.971	307	27.44	156
21	4.125	366	33.20	140	55.278	318	29.00	181
31	4.491	366	34.60	183	55.596	321	30.81	200
Juni 10	4.857	357	36.43	220	55.917	316	32.81	214
20	5.214	338	38.63	252	56.233	303	34.95	222
30	5.552	311	41.15	278	56.536	282	37.17	225
Juli 10	5.863	275	43.93	295	56.818	255	39.42	222
20	6.138	234	46.88	307	57.073	222	41.64	214
30	6.372	189	49.95	311	57.295	183	43.78	202
Aug. 9	6.561	139	53.06	309	57.478	143	45.80	185
19	6.700	89	56.15	301	57.621	100	47.65	167
29	6.789	40	59.16	286	57.721	58	49.32	145
Sept. 7	6.829	7	62.02	267	57.779	18	50.77	122
17	6.822	51	64.69	242	57.797	19	51.99	98
27	6.771	89	67.11	213	57.778	51	52.97	73
Okt. 7	6.682	122	69.24	180	57.727	77	53.70	50
17	6.560	147	71.04	143	57.650	97	54.20	27
27	6.413	166	72.47	103	57.553	111	54.47	4
Nov. 6	6.247	179	73.50	61	57.442	118	54.51	19
16	6.068	184	74.11	18	57.324	120	54.32	39
26	5.884	184	74.29	27	57.204	116	53.93	58
Dez. 6	5.700	176	74.02	71	57.088	108	53.35	75
16	5.524	163	73.31	113	56.980	96	52.60	91
26	5.361	145	72.18	152	56.884	79	51.69	102
36	5.216		70.66		56.805		50.67	
Mittl. Ort	4.341		48.91		55.215		36.67	
sec δ, tg δ	1.281		+0.801		1.017		+0.185	

Tag	856) β Gruis AR.		856) β Gruis Dekl.		857) η Pegasi AR.		857) η Pegasi Dekl.		859) λ Pegasi AR.		859) λ Pegasi Dekl.		860) ε Gruis AR.		860) ε Gruis Dekl.	
1929	$22^h 38^m$		$-47° 15'$		$22^h 39^m$		$+29° 50'$		$22^h 43^m$		$+23° 11'$		$22^h 44^m$		$-51° 41'$	
Jan. 1	24.350	116	44.73	120	38.565	107	58.40	158	4.910	92	28.49	141	14.726	142	48.50	134
11	24.234	80	43.53	156	38.458	83	56.82	179	4.818	72	27.08	158	14.584	103	47.16	172
21	24.154	40	41.97	188	38.375	56	55.03	195	4.746	46	25.50	169	14.481	61	45.44	207
31	24.114	1	40.09	216	38.319	24	53.08	201	4.700	18	23.81	171	14.420	15	43.37	237
Feb. 10	24.115	44	37.93	239	38.295	11	51.07	199	4.682	15	22.10	167	14.405	33	41.00	260
20	24.159	89	35.54	257	38.306	50	49.08	189	4.697	50	20.43	154	14.438	83	38.40	279
März 2	24.248	136	32.97	270	38.356	91	47.19	169	4.747	88	18.89	133	14.521	133	35.61	291
12	24.384	182	30.27	278	38.447	133	45.50	140	4.835	128	17.56	107	14.654	185	32.70	298
22	24.566	229	27.49	280	38.580	175	44.10	107	4.963	167	16.49	73	14.839	236	29.72	299
Apr. 1	24.795	273	24.69	277	38.755	216	43.03	66	5.130	205	15.76	35	15.075	284	26.73	293
11	25.068	316	21.92	269	38.971	253	42.37	22	5.335	241	15.41	5	15.359	331	23.80	282
21	25.384	354	19.23	254	39.224	286	42.15	23	5.576	273	15.46	46	15.690	374	20.98	265
Mai 1	25.738	386	16.69	234	39.510	312	42.38	68	5.849	300	15.92	88	16.064	409	18.33	242
11	26.124	412	14.35	209	39.822	332	43.06	112	6.149	318	16.80	127	16.473	438	15.91	213
21	26.536	428	12.26	179	40.154	342	44.18	154	6.467	330	18.07	162	16.911	457	13.78	180
31	26.964	436	10.47	145	40.496	343	45.72	189	6.797	333	19.69	193	17.368	467	11.98	143
Juni 10	27.400	432	9.02	106	40.839	337	47.61	221	7.130	327	21.62	219	17.835	464	10.55	102
20	27.832	419	7.96	66	41.176	321	49.82	245	7.457	313	23.81	238	18.299	451	9.53	58
30	28.251	394	7.30	24	41.497	297	52.27	265	7.770	292	26.19	253	18.750	426	8.95	14
Juli 10	28.645	359	7.06	18	41.794	266	54.92	277	8.062	263	28.72	260	19.176	391	8.81	31
20	29.004	316	7.24	59	42.060	228	57.69	282	8.325	228	31.32	261	19.567	344	9.12	74
30	29.320	264	7.83	97	42.288	187	60.51	282	8.553	188	33.93	257	19.911	290	9.86	114
Aug. 9	29.584	207	8.80	131	42.475	143	63.33	276	8.741	146	36.50	247	20.201	228	11.00	150
19	29.791	146	10.11	160	42.618	96	66.09	264	8.887	101	38.97	234	20.429	162	12.50	179
29	29.937	82	11.71	182	42.714	50	68.73	248	8.988	58	41.31	215	20.591	94	14.29	201
Sept. 7	30.019	22	13.53	197	42.764	7	71.21	227	9.046	16	43.46	193	20.685	27	16.30	216
17	30.041	37	15.50	202	42.771	33	73.48	201	9.062	22	45.39	169	20.712	37	18.46	221
27	30.004	90	17.52	200	42.738	68	75.49	174	9.040	56	47.08	142	20.675	96	20.67	217
Okt. 7	29.914	133	19.52	189	42.670	98	77.23	143	8.984	84	48.50	113	20.579	146	22.84	204
17	29.781	168	21.41	168	42.572	121	78.66	110	8.900	107	49.63	83	20.433	185	24.88	181
27	29.613	193	23.09	142	42.451	138	79.76	74	8.793	122	50.46	52	20.248	215	26.69	151
Nov. 6	29.420	206	24.51	108	42.313	148	80.50	38	8.671	132	50.98	20	20.033	232	28.20	115
16	29.214	209	25.59	70	42.165	153	80.88	0	8.539	136	51.18	12	19.801	237	29.35	73
26	29.005	202	26.29	29	42.012	151	80.88	37	8.403	134	51.06	43	19.564	232	30.08	28
Dez. 6	28.803	186	26.58	14	41.861	144	80.51	74	8.269	128	50.63	74	19.332	218	30.36	18
16	28.617	164	26.44	56	41.717	133	79.77	108	8.141	117	49.89	102	19.114	193	30.18	65
26	28.453	135	25.88	98	41.584	116	78.69	139	8.024	101	48.87	126	18.921	163	29.53	109
36	28.318		24.90		41.468		77.30		7.923		47.61		18.758		28.44	
Mittl. Ort	26.054		24.05		40.282		57.61		6.546		29.53		16.437		26.89	
sec δ, tg δ	1.473		—1.082		1.153		+0.574		1.088		+0.428		1.613		—1.266	

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Tag	863) ι Cephei AR.		863) ι Cephei Dekl.		864) λ Aquarii AR.		864) λ Aquarii Dekl.		865) ρ Indi AR.		865) ρ Indi Dekl.		866) δ Aquarii AR.		866) δ Aquarii Dekl.	
1929	$22^h 47^m$		$+65° 49'$		$22^h 48^m$		$-7° 57'$		$22^h 49^m$		$-70° 26'$		$22^h 50^m$		$-16° 11'$	
Jan. 1	6.06	39	45.19	169	53.225	67	38.93	45	42.36	37	97.05	199	51.593	70	68.82	14
11	5.67	34	43.50	217	53.158	47	39.38	35	41.99	28	95.06	245	51.523	49	68.96	3
21	5.33	28	41.33	256	53.111	24	39.73	22	41.71	20	92.61	283	51.474	26	68.93	21
31	5.05	19	38.77	285	53.087	0	39.95	7	41.51	11	89.78	314	51.448	0	68.72	41
Feb. 10	4.86	11	35.92	302	53.087	28	40.02	11	41.40	1	86.64	336	51.448	28	68.31	61
20	4.75	2	32.90	307	53.115	58	39.91	31	41.39	8	83.28	352	51.476	59	67.70	82
März 2	4.73	8	29.83	300	53.173	91	39.60	52	41.47	18	79.76	358	51.535	92	66.88	103
12	4.81	18	26.83	280	53.264	125	39.08	76	41.65	28	76.18	357	51.627	126	65.85	124
22	4.99	28	24.03	248	53.389	160	38.32	99	41.93	37	72.61	348	51.753	162	64.61	144
Apr. 1	5.27	36	21.55	208	53.549	194	37.33	122	42.30	46	69.13	333	51.915	198	63.17	162
11	5.63	44	19.47	159	53.743	228	36.11	143	42.76	54	65.80	310	52.113	231	61.55	178
21	6.07	50	17.88	105	53.971	258	34.68	162	43.30	61	62.70	281	52.344	263	59.77	190
Mai 1	6.57	55	16.83	47	54.229	284	33.06	179	43.91	67	59.89	246	52.607	289	57.87	199
11	7.12	58	16.36	12	54.513	304	31.27	190	44.58	72	57.43	205	52.896	311	55.88	203
21	7.70	59	16.48	71	54.817	318	29.37	196	45.30	76	55.38	161	53.207	326	53.85	201
31	8.29	59	17.19	127	55.135	324	27.41	199	46.06	77	53.77	112	53.533	332	51.84	195
Juni 10	8.88	58	18.46	180	55.459	322	25.42	195	46.83	77	52.65	61	53.865	331	49.89	183
20	9.46	54	20.26	228	55.781	313	23.47	186	47.60	75	52.04	8	54.196	322	48.06	168
30	10.00	49	22.54	269	56.094	294	21.61	173	48.35	71	51.96	43	54.518	305	46.38	147
Juli 10	10.49	43	25.23	305	56.388	270	19.88	156	49.06	65	52.39	94	54.823	279	44.91	123
20	10.92	36	28.28	333	56.658	238	18.32	135	49.71	58	53.33	142	55.102	248	43.68	97
30	11.28	28	31.61	353	56.896	201	16.97	112	50.29	48	54.75	183	55.350	210	42.71	70
Aug. 9	11.56	20	35.14	366	57.097	161	15.85	87	50.77	38	56.58	220	55.560	169	42.01	41
19	11.76	11	38.80	371	57.258	119	14.98	62	51.15	26	58.78	249	55.729	125	41.60	13
29	11.87	2	42.51	368	57.377	76	14.36	38	51.41	14	61.27	267	55.854	81	41.47	12
Sept. 7	11.89	6	46.19	358	57.453	34	13.98	14	51.55	1	63.94	277	55.935	38	41.59	34
17	11.83	13	49.77	341	57.487	3	13.84	7	51.56	11	66.71	275	55.973	2	41.93	53
27	11.70	21	53.18	316	57.484	37	13.91	24	51.45	22	69.46	263	55.971	37	42.46	69
Okt. 7	11.49	28	56.34	285	57.447	65	14.15	39	51.23	31	72.09	239	55.934	67	43.15	79
17	11.21	33	59.19	247	57.382	87	14.54	51	50.92	40	74.48	205	55.867	91	43.94	84
27	10.88	38	61.66	202	57.295	103	15.05	58	50.52	46	76.53	162	55.776	106	44.78	84
Nov. 6	10.50	42	63.68	153	57.192	111	15.63	63	50.06	51	78.15	113	55.670	116	45.62	82
16	10.08	44	65.21	98	57.081	113	16.26	66	49.55	52	79.28	58	55.554	119	46.44	75
26	9.64	45	66.19	41	56.968	110	16.92	64	49.03	53	79.86	0	55.435	116	47.19	65
Dez. 6	9.19	46	66.60	19	56.858	102	17.56	61	48.50	50	79.86	59	55.319	108	47.84	52
16	8.73	44	66.41	78	56.756	91	18.17	55	48.00	46	79.27	116	55.211	95	48.36	38
26	8.29	41	65.63	134	56.665	76	18.72	49	47.54	40	78.11	171	55.116	79	48.74	23
36	7.88		64.29		56.589		19.21		47.14		76.40		55.037		48.97	
Mittl. Ort	8.83		36.00		54.690		28.33		44.61		72.90		53.041		55.72	
sec δ, tg δ	2.442		+2.228		1.010		−0.140		2.989		−2.817		1.041		−0.291	

Tag	867) α Pisc. austr. AR.		Dekl.		869) ο Andromedae AR.		Dekl.		870) β Pegasi AR.		Dekl.		871) α Pegasi AR.		Dekl.	
1929	$22^h 53^m$		$-29° 59'$		$22^h 58^m$		$+41° 56'$		$23^h 0^m$		$+27° 41'$		$23^h 1^m$		$+14° 49'$	
	s		″		s		″		s		″		s		″	
Jan. 1	42.391	85	73.04	39	37.221	161	42.88	156	18.181	112	51.03	138	11.863	89	19.11	111
11	42.306	61	72.65	67	37.060	137	41.32	190	18.069	92	49.65	160	11.774	70	18.00	122
21	42.245	35	71.98	94	36.923	107	39.42	216	17.977	69	48.05	175	11.704	50	16.78	127
31	42.210	5	71.04	120	36.816	71	37.26	233	17.908	40	46.30	182	11.654	24	15.51	126
Feb. 10	42.205	26	69.84	143	36.745	29	34.93	241	17.868	8	44.48	182	11.630	4	14.25	118
20	42.231	61	68.41	165	36.716	17	32.52	237	17.860	29	42.66	173	11.634	36	13.07	105
März 2	42.292	97	66.76	184	36.733	66	30.15	224	17.889	69	40.93	156	11.670	71	12.02	85
12	42.389	134	64.92	201	36.799	118	27.91	200	17.958	111	39.37	131	11.741	108	11.17	60
22	42.523	173	62.91	215	36.917	169	25.91	169	18.069	153	38.06	99	11.849	147	10.57	30
Apr. 1	42.696	211	60.76	224	37.086	219	24.22	129	18.222	195	37.07	63	11.996	184	10.27	4
11	42.907	248	58.52	231	37.305	265	22.93	84	18.417	234	36.44	21	12.180	220	10.31	38
21	43.155	281	56.21	231	37.570	306	22.09	35	18.651	270	36.23	21	12.400	254	10.69	74
Mai 1	43.436	312	53.90	227	37.876	339	21.74	16	18.921	299	36.44	64	12.654	281	11.43	108
11	43.748	335	51.63	218	38.215	363	21.90	66	19.220	321	37.08	106	12.935	303	12.51	140
21	44.083	351	49.45	204	38.578	378	22.56	115	19.541	337	38.14	145	13.238	318	13.91	169
31	44.434	361	47.41	185	38.956	383	23.71	160	19.878	342	39.59	180	13.556	325	15.60	193
Juni 10	44.795	360	45.56	160	39.339	377	25.31	201	20.220	339	41.39	211	13.881	323	17.53	211
20	45.155	351	43.96	132	39.716	362	27.32	237	20.559	328	43.50	235	14.204	314	19.64	225
30	45.506	333	42.64	101	40.078	337	29.69	266	20.887	307	45.85	254	14.518	296	21.89	232
Juli 10	45.839	307	41.63	67	40.415	305	32.35	289	21.194	280	48.39	266	14.814	271	24.21	235
20	46.146	274	40.96	32	40.720	265	35.24	305	21.474	247	51.05	272	15.085	240	26.56	230
30	46.420	233	40.64	2	40.985	219	38.29	314	21.721	207	53.77	272	15.325	203	28.86	222
Aug. 9	46.653	188	40.66	35	41.204	171	41.43	317	21.928	165	56.49	266	15.528	165	31.08	209
19	46.841	141	41.01	65	41.375	120	44.60	313	22.093	121	59.15	256	15.693	122	33.17	192
29	46.982	91	41.66	91	41.495	70	47.73	302	22.214	76	61.71	240	15.815	81	35.09	172
Sept. 7	47.073	43	42.57	113	41.565	20	50.75	286	22.290	33	64.11	220	15.896	40	36.81	150
17	47.116	3	43.70	129	41.585	26	53.61	265	22.323	6	66.31	198	15.936	3	38.31	127
27	47.113	43	44.99	137	41.559	67	56.26	238	22.317	42	68.29	171	15.939	31	39.58	102
Okt. 7	47.070	77	46.36	139	41.492	104	58.64	208	22.275	73	70.00	142	15.908	60	40.60	77
17	46.993	105	47.75	134	41.388	134	60.72	173	22.202	98	71.42	112	15.848	82	41.37	51
27	46.888	125	49.09	124	41.254	159	62.45	133	22.104	118	72.54	79	15.766	100	41.88	27
Nov. 6	46.763	136	50.33	107	41.095	176	63.78	92	21.986	130	73.33	45	15.666	111	42.15	2
16	46.627	140	51.40	86	40.919	187	64.70	47	21.856	138	73.78	10	15.555	117	42.17	22
26	46.487	137	52.26	61	40.732	192	65.17	2	21.718	141	73.88	24	15.438	117	41.95	44
Dez. 6	46.350	129	52.87	34	40.540	190	65.19	44	21.577	138	73.64	58	15.321	114	41.51	66
16	46.221	115	53.21	6	40.350	183	64.75	89	21.439	130	73.06	91	15.207	107	40.85	86
26	46.106	96	53.27	23	40.167	169	63.86	131	21.309	119	72.15	120	15.100	94	39.99	102
36	46.010		53.04		39.998		62.55		21.190		70.95		15.006		38.97	
Mittl. Ort	43.840		56.05		39.015		38.16		19.773		50.23		13.348		22.29	
sec δ, tg δ	1.155		−0.577		1.344		+0.899		1.129		+0.525		1.034		+0.265	

Scheinbare Sternörter 1929

Tag	872) ϑ Gruis AR.		872) ϑ Gruis Dekl.		874) π Cephei AR.		874) π Cephei Dekl.		873) c^2 Aquarii AR.		873) c^2 Aquarii Dekl.		875) Br 3077 AR.		875) Br 3077 Dekl.	
1929	$23^h\ 2^m$		$-43°\ 53'$		$23^h\ 5^m$		$+74°\ 59'$		$23^h\ 5^m$		$-21°\ 33'$		$23^h\ 9^m$		$+56°\ 46'$	
Jan. 1	51.667	128	96.48	89	34.36	71	83.91	134	38.438	82	43.95	3	49.281	267	42.40	146
11	51.539	98	95.59	128	33.65	64	82.57	188	38.356	64	43.92	25	49.014	236	40.94	191
21	51.441	66	94.31	161	33.01	54	80.69	234	38.292	41	43.67	48	48.778	196	39.03	228
31	51.375	31	92.70	193	32.47	43	78.35	273	38.251	15	43.19	71	48.582	145	36.75	257
Feb. 10	51.344	8	90.77	220	32.04	28	75.62	297	38.236	13	42.48	94	48.437	87	34.18	274
20	51.352	49	88.57	242	31.76	13	72.65	312	38.249	43	41.54	116	48.350	22	31.44	281
März 2	51.401	93	86.15	259	31.63	2	69.53	313	38.292	78	40.38	138	48.328	49	28.63	275
12	51.494	138	83.56	272	31.65	18	66.40	301	38.370	113	39.00	158	48.377	121	25.88	258
22	51.632	184	80.84	280	31.83	33	63.39	277	38.483	151	37.42	176	48.498	194	23.30	230
Apr. 1	51.816	228	78.04	282	32.16	48	60.62	242	38.634	188	35.66	192	48.692	262	21.00	193
11	52.044	272	75.22	278	32.64	60	58.20	198	38.822	224	33.74	204	48.954	326	19.07	148
21	52.316	313	72.44	269	33.24	71	56.22	147	39.046	258	31.70	213	49.280	382	17.59	97
Mai 1	52.629	348	69.75	254	33.95	79	54.75	92	39.304	288	29.57	218	49.662	426	16.62	43
11	52.977	377	67.21	233	34.74	86	53.83	33	39.592	312	27.39	217	50.088	459	16.19	12
21	53.354	398	64.88	207	35.60	88	53.50	26	39.904	330	25.22	210	50.547	479	16.31	68
31	53.752	411	62.81	176	36.48	88	53.76	85	40.234	339	23.12	200	51.026	486	16.99	122
Juni 10	54.163	413	61.05	140	37.36	86	54.61	141	40.573	341	21.12	183	51.512	480	18.21	172
20	54.576	406	59.65	102	38.22	82	56.02	194	40.914	334	19.29	163	51.992	460	19.93	217
30	54.982	387	58.63	60	39.04	75	57.96	240	41.248	319	17.66	137	52.452	430	22.10	257
Juli 10	55.369	359	58.03	18	39.79	67	60.36	282	41.567	296	16.29	110	52.882	389	24.67	291
20	55.728	322	57.85	24	40.46	57	63.18	316	41.863	265	15.19	79	53.271	340	27.58	317
30	56.050	276	58.09	65	41.03	45	66.34	344	42.128	229	14.40	47	53.611	282	30.75	336
Aug. 9	56.326	226	58.74	103	41.48	33	69.78	364	42.357	188	13.93	17	53.893	221	34.11	349
19	56.552	169	59.77	136	41.81	20	73.42	376	42.545	144	13.76	14	54.114	158	37.60	354
29	56.721	111	61.13	162	42.01	8	77.18	381	42.689	98	13.90	41	54.272	92	41.14	352
Sept. 7*)	56.832	54	62.75	182	42.09	5	80.99	379	42.787	54	14.31	65	54.364	28	44.66	342
17	56.886	2	64.57	195	42.04	18	84.78	367	42.841	12	14.96	84	54.392	32	48.08	326
27	56.884	53	66.52	198	41.86	30	88.45	349	42.853	26	15.80	98	54.360	90	51.34	304
Okt. 7	56.831	97	68.50	193	41.56	41	91.94	322	42.827	58	16.78	106	54.270	140	54.38	274
17	56.734	134	70.43	180	41.15	51	95.16	289	42.769	84	17.84	109	54.130	186	57.12	240
27	56.600	161	72.23	157	40.64	59	98.05	249	42.685	104	18.93	107	53.944	223	59.52	198
Nov. 6	56.439	179	73.80	129	40.05	67	100.54	200	42.581	116	20.00	98	53.721	254	61.50	153
16	56.260	188	75.09	95	39.38	73	102.54	147	42.465	122	20.98	86	53.467	276	63.03	103
26	56.072	187	76.04	57	38.65	76	104.01	90	42.343	121	21.84	71	53.191	290	64.06	50
Dez. 6	55.885	178	76.61	17	37.89	78	104.91	28	42.222	116	22.55	52	52.901	295	64.56	5
16	55.707	163	76.78	25	37.11	77	105.19	34	42.106	106	23.07	31	52.606	290	64.51	60
26	55.544	142	76.53	66	36.34	73	104.85	95	42.000	91	23.38	10	52.316	277	63.91	113
36	55.402		75.87		35.61		103.90		41.909		23.48		52.039		62.78	
Mittl. Ort	53.106		76.04		38.05		72.62		39.794		29.26		51.390		33.79	
sec δ, tg δ	1.388		−0.962		3.865		+3.733		1.075		−0.395		1.825		+1.527	

*) Bei Stern 875) lies Sept. 8

Tag	877) γ Tucanae AR.		Dekl.		879) γ Sculptoris AR.		Dekl.		880) τ Pegasi AR.		Dekl.		882) 4 Cassiopeiae AR.		Dekl.	
1929	23h 13m		−58° 37′		23h 14m		−32° 54′		23h 17m		+23° 20′		23h 21m		+61° 53′	
Jan. 1	16.250	226	54.32	136	58.343	106	86.72	39	5.737	109	64.80	120	38.28	34	44.09	128
11	16.024	186	52.96	182	58.237	85	86.33	72	5.628	94	63.60	138	37.94	32	42.81	178
21	15.838	140	51.14	222	58.152	60	85.61	103	5.534	74	62.22	151	37.62	27	41.03	221
31	15.698	89	48.92	258	58.092	32	84.58	132	5.460	49	60.71	157	37.35	21	38.82	254
Feb. 10	15.609	33	46.34	286	58.060	1	83.26	159	5.411	20	59.14	156	37.14	14	36.28	277
20	15.576	25	43.48	309	58.059	34	81.67	182	5.391	14	57.58	148	37.00	7	33.51	288
März 2	15.601	86	40.39	325	58.093	70	79.85	204	5.405	52	56.10	131	36.93	1	30.63	288
12	15.687	148	37.14	333	58.163	109	77.81	222	5.457	91	54.79	109	36.94	10	27.75	276
22	15.835	211	33.81	335	58.272	151	75.59	235	5.548	134	53.70	79	37.04	18	24.99	251
Apr. 1	16.046	272	30.46	330	58.423	191	73.24	246	5.682	175	52.91	45	37.22	27	22.48	217
11	16.318	331	27.16	318	58.614	231	70.78	251	5.857	215	52.46	7	37.49	34	20.31	175
21	16.649	386	23.98	299	58.845	269	68.27	252	6.072	252	52.39	32	37.83	41	18.56	126
Mai 1	17.035	434	20.99	274	59.114	302	65.75	246	6.324	282	52.71	71	38.24	46	17.30	72
11	17.469	475	18.25	243	59.416	330	63.29	236	6.606	308	53.42	109	38.70	50	16.58	16
21	17.944	505	15.82	207	59.746	351	60.93	220	6.914	326	54.51	146	39.20	53	16.42	41
31	18.449	524	13.75	166	60.097	364	58.73	198	7.240	335	55.97	176	39.73	54	16.83	96
Juni 10	18.973	531	12.09	120	60.461	368	56.75	172	7.575	335	57.73	204	40.27	54	17.79	148
20	19.504	524	10.89	72	60.829	363	55.03	142	7.910	327	59.77	226	40.81	52	19.27	198
30	20.028	504	10.17	23	61.192	349	53.61	107	8.237	310	62.03	241	41.33	49	21.25	241
Juli 10	20.532	471	9.94	27	61.541	326	52.54	71	8.547	287	64.44	251	41.82	44	23.66	278
20	21.003	425	10.21	75	61.867	294	51.83	34	8.834	256	66.95	255	42.26	38	26.44	310
30	21.428	368	10.96	121	62.161	256	51.49	5	9.090	220	69.50	254	42.64	33	29.54	334
Aug. 9	21.796	302	12.17	161	62.417	213	51.54	41	9.310	181	72.04	246	42.97	26	32.88	350
19	22.098	229	13.78	196	62.630	165	51.95	74	9.491	139	74.50	235	43.23	19	36.38	360
29	22.327	151	15.74	224	62.795	116	52.69	103	9.630	96	76.85	219	43.42	11	39.98	362
Sept. 8	22.478	71	17.98	243	62.911	66	53.72	128	9.726	55	79.04	199	43.53	4	43.60	357
17	22.549	6	20.41	251	62.977	19	55.00	145	9.781	15	81.03	177	43.57	3	47.17	344
27	22.543	80	22.92	249	62.996	25	56.45	156	9.796	20	82.80	153	43.54	9	50.61	325
Okt. 7	22.463	146	25.41	238	62.971	63	58.01	159	9.776	51	84.33	126	43.45	16	53.86	298
17	22.317	201	27.79	216	62.908	93	59.60	154	9.725	77	85.59	97	43.29	22	56.84	266
27	22.116	245	29.95	184	62.815	118	61.14	143	9.648	97	86.56	68	43.07	26	59.50	226
Nov. 6	21.871	277	31.79	146	62.697	134	62.57	126	9.551	112	87.24	39	42.81	30	61.76	182
16	21.594	295	33.25	100	62.563	143	63.83	102	9.439	122	87.63	9	42.51	33	63.58	131
26	21.299	300	34.25	50	62.420	145	64.85	75	9.317	126	87.72	22	42.18	35	64.89	77
Dez. 6	20.999	294	34.75	3	62.275	141	65.60	44	9.191	127	87.50	52	41.83	37	65.66	21
16	20.705	275	34.72	55	62.134	130	66.04	12	9.064	123	86.98	79	41.46	37	65.87	37
26	20.430	247	34.17	107	62.004	116	66.16	21	8.941	115	86.19	105	41.09	36	65.50	93
36	20.183		33.10		61.888		65.95		8.826		85.14		40.73		64.57	
Mittl. Ort	17.717		31.03		59.640		68.83		7.203		64.87		40.52		34.01	
sec δ, tg δ	1.921		−1.640		1.191		−0.647		1.089		+0.432		2.123		+1.872	

Scheinbare Sternörter 1929

Tag	884) ϰ Piscium AR.		884) Dekl.		885) 70 Pegasi AR.		885) Dekl.		891) ι Andromedae AR.		891) Dekl.		892) ι Piscium AR.		892) Dekl.	
1929	23h 23m		+0° 51′		23h 25m		+12° 21′		23h 34m		+42° 52′		23h 36m		+5° 14′	
Jan. 1	16.256	86	52.65	71	32.384	96	63.40	96	37.304	181	35.43	121	16.592	93	22.71	79
11	16.170	72	51.94	67	32.288	82	62.44	104	37.123	165	34.22	158	16.499	81	21.92	80
21	16.098	55	51.27	60	32.206	65	61.40	107	36.958	142	32.64	189	16.418	66	21.12	77
31	16.043	33	50.67	51	32.141	43	60.33	106	36.816	111	30.75	211	16.352	46	20.35	71
Feb. 10	16.010	9	50.16	37	32.098	17	59.27	98	36.705	74	28.64	225	16.306	22	19.64	59
20	16.001	20	49.79	19	32.081	12	58.29	86	36.631	30	26.39	229	16.284	6	19.05	45
März 2	16.021	53	49.60	1	32.093	47	57.43	68	36.601	20	24.10	223	16.290	39	18.60	25
12	16.074	87	49.61	25	32.140	84	56.75	45	36.621	72	21.87	207	16.329	74	18.35	2
22	16.161	125	49.86	51	32.224	122	56.30	17	36.693	126	19.80	181	16.403	112	18.33	24
Apr. 1	16.286	162	50.37	77	32.346	161	56.13	14	36.819	181	17.99	149	16.515	150	18.57	51
11	16.448	198	51.14	104	32.507	200	56.27	46	37.000	233	16.50	108	16.665	189	19.08	81
21	16.646	233	52.18	131	32.707	236	56.73	78	37.233	280	15.42	64	16.854	225	19.89	109
Mai 1	16.879	264	53.49	154	32.943	266	57.51	111	37.513	320	14.78	16	17.079	257	20.98	135
11	17.143	288	55.03	173	33.209	292	58.62	141	37.833	353	14.62	33	17.336	284	22.33	159
21	17.431	307	56.76	190	33.501	311	60.03	167	38.186	376	14.95	81	17.620	304	23.92	179
31	17.738	319	58.66	201	33.812	322	61.70	189	38.562	389	15.76	127	17.924	318	25.71	195
Juni 10	18.057	321	60.67	207	34.134	325	63.59	206	38.951	391	17.03	170	18.242	323	27.66	206
20	18.378	317	62.74	208	34.459	319	65.65	218	39.342	384	18.73	208	18.565	319	29.72	211
30	18.695	304	64.82	203	34.778	306	67.83	224	39.726	365	20.81	240	18.884	308	31.83	211
Juli 10	18.999	283	66.85	194	35.084	284	70.07	225	40.091	339	23.21	268	19.192	290	33.94	205
20	19.282	256	68.79	179	35.368	257	72.32	221	40.430	304	25.89	287	19.482	264	35.99	195
30	19.538	224	70.58	162	35.625	224	74.53	211	40.734	264	28.76	302	19.746	232	37.94	181
Aug. 9	19.762	186	72.20	141	35.849	187	76.64	197	40.998	219	31.78	310	19.978	197	39.75	163
19	19.948	147	73.61	118	36.036	147	78.61	181	41.217	171	34.88	310	20.175	159	41.38	142
29	20.095	107	74.79	94	36.183	106	80.42	160	41.388	121	37.98	305	20.334	119	42.80	120
Sept. 8	$_{12}$20.202	67	75.73	70	$_{12}$36.289	67	82.02	139	41.509	73	41.03	294	20.453	80	44.00	96
17	20.269	29	76.43	46	36.356	29	83.41	116	^{15}41.582	25	43.97	278	^{15}20.533	42	44.96	73
27	20.298	5	76.89	25	36.385	5	84.57	92	41.607	18	46.75	256	20.575	8	45.69	50
Okt. 7	20.293	35	77.14	5	36.380	36	85.49	69	41.589	58	49.31	230	20.583	23	46.19	28
17	20.258	59	77.19	13	36.344	60	86.18	45	41.531	94	51.61	199	20.560	48	46.47	9
27	20.199	78	77.06	28	36.284	80	86.63	23	41.437	123	53.60	164	20.512	69	46.56	10
Nov. 6	20.121	92	76.78	41	36.204	95	86.86	0	41.314	148	55.24	125	20.443	84	46.46	25
16	20.029	101	76.37	52	36.109	104	86.86	20	41.166	166	56.49	83	20.359	95	46.21	40
26	19.928	104	75.85	59	36.005	109	86.66	39	41.000	180	57.32	40	20.264	101	45.81	52
Dez. 6	19.824	103	75.26	65	35.896	110	86.27	58	40.820	187	57.72	6	20.163	103	45.29	62
16	19.721	99	74.61	68	35.786	107	85.69	74	40.633	189	57.66	51	20.060	102	44.67	70
26	19.622	91	73.93	69	35.679	99	84.95	87	40.444	184	57.15	93	19.958	96	43.97	76
36	19.531		73.24		35.580		84.08		40.260		56.22		19.862		43.21	
Mittl. Ort	17.554		60.03		33.727		66.86		38.904		29.18		17.838		28.39	
sec δ, tg δ	1.000		+0.015		1.024		+0.219		1.364		+0.928		1.004		+0.092	

Tag	893) γ Cephei AR.		893) γ Cephei Dekl.		894) ω² Aquarii AR.		894) ω² Aquarii Dekl.		895) 41 H. Cephei AR.		895) 41 H. Cephei Dekl.		896) Lac. δ Sculptoris AR.		896) Lac. δ Sculptoris Dekl.	
1929	23h 36m		+77° 13′		23h 39m		−14° 55′		23h 44m		+67° 24′		23h 45m		−28° 31′	
Jan. 1	21.47	89	82.69	86	1.356	95	87.85	29	27.85	46	56.04	92	12.742	115	39.61	8
11	20.58	83	81.83	145	1.261	82	88.14	9	27.39	43	55.12	147	12.627	100	39.53	39
21	19.75	73	80.38	198	1.179	66	88.23	10	26.96	39	53.65	195	12.527	82	39.14	71
31	19.02	61	78.40	242	1.113	45	88.13	31	26.57	33	51.70	237	12.445	60	38.43	100
Feb. 10	18.41	46	75.98	277	1.068	21	87.82	55	26.24	25	49.33	267	12.385	34	37.43	129
20	17.95	30	73.21	299	1.047	7	87.27	77	25.99	15	46.66	287	12.351	2	36.14	155
März 2	17.65	11	70.22	309	1.054	39	86.50	100	25.84	5	43.79	294	12.349	32	34.59	180
12	17.54	7	67.13	306	1.093	74	85.50	123	25.79	5	40.85	289	12.381	69	32.79	202
22	17.61	26	64.07	291	1.167	111	84.27	145	25.84	16	37.96	273	12.450	110	30.77	220
Apr. 1	17.87	43	61.16	264	1.278	150	82.82	165	26.00	26	35.23	245	12.560	152	28.57	235
11	18.30	60	58.52	227	1.428	189	81.17	184	26.26	36	32.78	208	12.712	193	26.22	246
21	18.90	74	56.25	181	1.617	225	79.33	199	26.62	44	30.70	163	12.905	232	23.76	252
Mai 1	19.64	85	54.44	133	1.842	258	77.34	210	27.06	52	29.07	113	13.137	269	21.24	253
11	20.49	95	53.11	76	2.100	287	75.24	217	27.58	58	27.94	58	13.406	300	18.71	248
21	21.44	100	52.35	17	2.387	309	73.07	219	28.16	62	27.36	1	13.706	326	16.23	238
31	22.44	103	52.18	41	2.696	323	70.88	215	28.78	64	27.35	55	14.032	343	13.85	222
Juni 10	23.47	103	52.59	98	3.019	331	68.73	205	29.42	64	27.90	110	14.375	353	11.63	200
20	24.50	99	53.57	153	3.350	330	66.68	191	30.06	63	29.00	162	14.728	354	9.63	173
30	25.49	93	55.10	203	3.680	319	64.77	172	30.69	60	30.62	210	15.082	345	7.90	143
Juli 10	26.42	86	57.13	249	3.999	302	63.05	149	31.29	55	32.72	253	15.427	328	6.47	108
20	27.28	76	59.62	289	4.301	277	61.56	123	31.84	50	35.25	289	15.755	302	5.39	71
30	28.04	64	62.51	322	4.578	245	60.33	93	32.34	43	38.14	320	16.057	270	4.68	34
Aug. 9	28.68	51	65.73	349	4.823	210	59.40	63	32.77	35	41.34	342	16.327	232	4.34	3
19	29.19	37	69.22	368	5.033	170	58.77	32	33.12	27	44.76	359	16.559	189	4.37	40
29	29.56	23	72.90	380	5.203	128	58.45	4	33.39	19	48.35	368	16.748	144	4.77	72
Sept. 8	29.79	8	76.70	384	[10] 5.331	86	58.41	24	33.58	10	52.03	369	16.892	97	5.49	101
17	[15] 29.87	7	80.54	379	5.417	46	58.65	47	[17] 33.68	1	55.72	363	[17] 16.989	53	6.50	124
27	29.80	21	84.33	369	5.463	9	59.12	67	33.69	7	59.35	350	17.042	11	7.74	140
Okt. 7	29.59	34	88.02	349	5.472	23	59.79	81	33.62	15	62.85	328	17.053	27	9.14	150
17	29.25	48	91.51	321	5.449	52	60.60	91	33.47	22	66.13	301	17.026	60	10.64	152
27	28.77	60	94.72	286	5.397	74	61.51	96	33.25	29	69.14	265	16.966	86	12.16	148
Nov. 6	28.17	70	97.58	243	5.323	90	62.47	95	32.96	34	71.79	223	16.880	107	13.64	136
16	27.47	78	100.01	194	5.233	102	63.42	90	32.62	39	74.02	175	16.773	121	15.00	118
26	26.69	86	101.95	139	5.131	108	64.32	81	32.23	43	75.77	121	16.652	128	16.18	96
Dez. 6	25.83	90	103.34	79	5.023	109	65.13	70	31.80	47	76.98	65	16.524	130	17.14	69
16	24.93	92	104.13	17	4.914	105	65.83	55	31.33	47	77.63	5	16.394	128	17.83	41
26	24.01	90	104.30	47	4.809	99	66.38	38	30.86	47	77.68	54	16.266	120	18.24	9
36	23.11		103.83		4.710		66.76		30.39		77.14		16.146		18.33	
Mittl. Ort	25.11		69.82		2.505		75.40		30.19		44.13		13.811		23.01	
sec δ, tg δ	4.526		+4.414		1.035		−0.267		2.604		+2.404		1.138		−0.543	

Scheinbare Sternörter 1929

Obere Kulmination Greenwich

Tag	898) φ Pegasi AR.		898) φ Pegasi Dekl.		902) ω Piscium AR.		902) ω Piscium Dekl.		903) ε Tucanae AR.		903) ε Tucanae Dekl.	
1929	$23^h 48^m$		$+18° 43'$		$23^h 55^m$		$+6° 28'$		$23^h 56^m$		$-65° 57'$	
Jan. 1	51.123	112	32.23	95	38.696	101	7.91	76	13.42	38	104.61	113
11	51.011	103	31.28	109	38.595	92	7.15	78	13.04	34	103.48	167
21	50.908	89	30.19	120	38.503	80	6.37	76	12.70	29	101.81	216
31	50.819	69	28.99	124	38.423	62	5.61	71	12.41	24	99.65	259
Feb. 10	50.750	44	27.75	123	38.361	40	4.90	61	12.17	17	97.06	295
20	50.706	14	26.52	115	38.321	13	4.29	48	12.00	10	94.11	325
März 2	50.692	20	25.37	102	38.308	18	3.81	29	11.90	3	90.86	346
12	50.712	58	24.35	81	38.326	53	3.52	8	11.87	6	87.40	361
22	50.770	100	23.54	56	38.379	92	3.44	17	11.93	14	83.79	367
Apr. 1	50.870	142	22.98	26	38.471	132	3.61	44	12.07	22	80.12	365
11	51.012	184	22.72	8	38.603	172	4.05	73	12.29	30	76.47	356
21	51.196	222	22.80	42	38.775	210	4.78	102	12.59	37	72.91	340
Mai 1	51.418	258	23.22	77	38.985	245	5.80	128	12.96	45	69.51	316
11	51.676	288	23.99	111	39.230	274	7.08	153	13.41	51	66.35	285
21	51.964	310	25.10	142	39.504	298	8.61	175	13.92	57	63.50	248
31	52.274	325	26.52	171	39.802	313	10.36	191	14.49	60	61.02	206
Juni 10	52.599	331	28.23	194	40.115	322	12.27	204	15.09	63	58.96	159
20	52.930	330	30.17	212	40.437	322	14.31	211	15.72	63	57.37	107
30	53.260	318	32.29	225	40.759	314	16.42	212	16.35	63	56.30	53
Juli 10	53.578	301	34.54	233	41.073	298	18.54	209	16.98	61	55.77	1
20	53.879	275	36.87	235	41.371	275	20.63	199	17.59	56	55.78	55
30	54.154	244	39.22	232	41.646	245	22.62	187	18.15	51	56.33	107
Aug. 9	54.398	209	41.54	223	41.891	213	24.49	171	18.66	44	57.40	155
19	54.607	171	43.77	210	42.104	176	26.20	150	19.10	35	58.95	198
29	54.778	130	45.87	195	42.280	137	27.70	128	19.45	27	60.93	233
Sept. 8	54.908	91	47.82	176	42.417	99	28.98	106	19.72	17	63.26	260
18	54.999	52	49.58	154	42.516	61	30.04	82	19.89	7	65.86	276
27	55.051	18	51.12	132	42.577	27	30.86	59	19.96	3	68.62	282
Okt. 7	55.069	15	52.44	107	42.604	4	31.45	37	19.93	12	71.44	275
17	55.054	43	53.51	83	42.600	32	31.82	17	19.81	20	74.19	258
27	55.011	65	54.34	58	42.568	54	31.99	2	19.61	28	76.77	230
Nov. 6	54.946	84	54.92	33	42.514	72	31.97	18	19.33	33	79.07	192
16	54.862	98	55.25	7	42.442	86	31.79	34	19.00	38	80.99	146
26	54.764	108	55.32	17	42.356	95	31.45	46	18.62	41	82.45	93
Dez. 6	54.656	114	55.15	40	42.261	101	30.99	56	18.21	42	83.38	37
16	54.542	115	54.75	63	42.160	103	30.43	66	17.79	41	83.75	21
26	54.427	113	54.12	82	42.057	101	29.77	71	17.38	40	83.54	80
36	54.314		53.30		41.956		29.06		16.98		82.74	
Mittl. Ort	52.380		33.02		39.839		12.78		14.27		80.09	
sec δ, tg δ	1.056		+0.339		1.006		+0.113		2.456		−2.243	

Sternkonstanten 1929

zur Ermittlung der kurzperiodischen Nutationsglieder

N.F.K.	*a*	*b*	*a'*	*b'*	N.F.K.	*a*	*b*	*a'*	*b'*
Nr.	s		"		Nr.	s		"	
10	+ 2.9	−0.145	+20.0	−0.071	474	+3.6	+0.170	−19.8	+0.143
11	+ 2.5	−0.303	+20.0	−0.096	486	+2.4	−0.145	−19.5	+0.228
24	+ 3.9	+0.238	+19.7	−0.178	499	+1.5	−0.200	−18.7	+0.360
51	+ 4.8	+0.196	+18.4	−0.394	524	−0.2	−0.262	−16.9	+0.534
55	+ 4.4	+0.148	+18.3	−0.411	542	+7.4	+0.258	−15.4	+0.639
70	+ 5.1	+0.180	+17.5	−0.490	550	−0.2	−0.176	−14.7	+0.678
76	+ 4.7	+0.128	+17.0	−0.533	560	+5.6	+0.113	−13.4	+0.744
87	+ 5.7	+0.167	+15.8	−0.613	565	+0.6	−0.107	−13.3	+0.748
90	− 1.4	−0.280	+15.7	−0.620	569	−0.1	−0.132	−12.8	+0.768
105	+ 7.9	+0.249	+14.4	−0.697	590	−2.2	−0.173	−11.0	+0.835
115	+ 7.5	+0.202	+13.5	−0.741	606	−1.7	−0.121	− 9.0	+0.893
138	+ 6.3	+0.110	+11.3	−0.826	611	+9.2	+0.138	− 8.3	+0.911
141	+ 0.7	−0.080	+11.3	−0.827	619	−0.1	−0.067	− 7.8	+0.921
146	− 1.0	−0.130	+10.9	−0.839	625	+6.3	+0.058	− 6.8	+0.941
173	+ 8.0	+0.091	+ 6.9	−0.939	639	+0.2	−0.033	− 4.5	+0.975
178	+ 6.0	+0.047	+ 6.3	−0.950	664	−0.4	−0.017	− 2.0	+0.995
191	+ 9.9	+0.074	+ 4.3	−0.977	670	−1.1	−0.015	− 1.5	+0.997
196	− 0.1	−0.032	+ 4.0	−0.980	675	−2.7	−0.009	− 0.6	+0.999
205	+ 8.0	+0.032	+ 2.6	−0.992	695	−1.2	+0.021	+ 2.0	+0.995
234	+ 6.6	−0.009	− 1.0	−0.999	698	+7.0	−0.030	+ 3.0	+0.988
248	+10.3	−0.054	− 3.0	−0.989	723	0.0	+0.050	+ 6.2	+0.950
281	0.0	+0.054	− 6.6	−0.944	729	−1.1	+0.073	+ 6.6	+0.944
284	+ 6.3	−0.061	− 7.1	−0.934	747	−0.2	+0.084	+ 9.1	+0.890
297	− 0.7	+0.091	− 8.7	−0.901	748	+7.0	−0.103	+ 9.4	+0.882
300	+ 7.2	−0.110	− 9.4	−0.883	754	+5.7	−0.077	+10.2	+0.862
310	+ 7.6	−0.144	−10.8	−0.842	759	−2.0	+0.163	+10.9	+0.840
318	− 1.7	+0.172	−11.7	−0.812	770	−0.8	+0.151	+12.4	+0.787
343	+ 1.0	+0.107	−14.3	−0.703	775	+5.4	−0.098	+12.8	+0.770
344	+ 5.3	−0.115	−14.4	−0.694	795	−1.2	+0.225	+14.6	+0.685
348	+ 0.7	+0.132	−14.9	−0.668	805	+5.0	−0.113	+15.4	+0.641
357	+ 5.3	−0.146	−15.8	−0.615	809	+0.8	+0.146	+15.8	+0.616
372	+ 5.4	−0.188	−17.0	−0.530	810	+6.7	−0.246	+16.1	+0.596
387	+ 4.3	−0.135	−18.1	−0.426	837	+1.2	+0.181	+17.7	+0.468
391	+ 1.2	+0.208	−18.3	−0.411	863	+2.1	+0.141	+19.0	+0.312
395	+ 5.2	−0.248	−18.5	−0.386	865	+4.2	−0.179	+19.1	+0.302
433	+ 3.6	−0.179	−19.8	−0.143	874	+1.9	+0.242	+19.5	+0.235
440	+ 3.4	−0.157	−20.0	−0.093	893	+2.5	+0.293	+19.9	+0.103
454	+ 2.8	−0.314	−20.0	+0.039	895	+2.9	+0.160	+20.0	+0.068
459	+ 3.5	+0.340	−20.0	+0.062	903	+3.1	−0.150	+20.0	+0.016
472	+ 2.6	−0.183	−19.9	+0.133					

Scheinbare Sternörter 1929

Obere Kulmination Greenwich

Na) 43 Hev. Cephei $4^m.52$

Tag	Januar AR.	Januar Dekl.	Januar ☾ Glieder		Februar AR.	Februar Dekl.	Februar ☾ Glieder		März AR.	März Dekl.	März ☾ Glieder		April AR.	April Dekl.	April ☾ Glieder	
	$0^h 58^m$	$+85° 52'$	in $0^s.01$	in $0''.01$	$0^h 58^m$	$+85° 52'$	in $0^s.01$	in $0''.01$	$0^h 58^m$	$+85° 52'$	in $0^s.01$	in $0''.01$	$0^h 58^m$	$+85° 52'$	in $0^s.01$	in $0''.01$
1	$37^s.81$	$53''.98$	−6	+8	$28^s.68$	$53''.45$	−5	−5	$22^s.17$	$48''.13$	−3	−7	$19^s.26$	$39''.17$	+8	−3
2	37.51	54.06	−8	+4	28.40	53.33	−1	−7	22.00	47.87	+1	−7	19.26	38.86	+9	0
3	37.21	54.13	−8	0	28.13	53.21	+2	−7	21.83	47.61	+4	−7	19.26	38.56	+8	+3
4	36.92	54.20	−6	−4	27.86	53.08	+6	−6	21.66	47.35	+7	−5	19.27	38.25	+5	+5
5	36.62	54.26	−4	−6	27.59	52.94	+8	−4	21.50	47.09	+9	−2	19.28	37.95	+1	+7
6	36.32	54.32	0	−7	27.33	52.80	+9	−1	21.35	46.82	+9	+1	*)19.30	37.65	−3	+6
7	36.02	54.37	+4	−7	27.07	52.65	+9	+3	21.20	46.55	+7	+4	19.33	37.34	−7	+5
8	35.73	54.41	+7	−5	26.81	52.50	+6	+5	21.06	46.28	+4	+6	19.36	37.04	−10	+1
9	35.43	54.44	+8	−3	26.55	52.34	+2	+7	20.92	46.00	0	+7	19.40	36.74	−11	−3
10	35.13	54.47	+9	0	26.29	52.17	−2	+7	20.79	45.72	−5	+6	19.44	36.44	−10	−7
11	34.82	54.49	+8	+3	26.04	52.00	−6	+5	20.66	45.44	−9	+4	19.49	36.14	−6	−10
12	34.52	54.51	+5	+6	25.79	51.83	−10	+2	20.54	45.16	−11	0	19.54	35.84	−1	−10
13	34.22	54.52	+1	+7	25.54	51.65	−11	−2	20.42	44.87	−11	−5	19.60	35.55	+4	−8
14	33.92	54.52	−4	+6	25.30	51.46	−10	−7	20.31	44.58	−8	−8	19.66	35.26	+8	−5
15	33.62	54.51	−8	+4	25.06	51.27	−7	−10	20.20	44.29	−4	−10	19.73	34.97	+11	0
16	33.32	54.50	−11	0	24.83	51.08	−2	−11	20.10	44.00	+1	−10	19.81	34.68	+11	+5
17	33.03	54.48	−11	−5	24.60	50.88	+3	−10	20.00	43.70	+6	−7	19.89	34.39	+8	+9
18	32.73	54.46	−9	−9	24.38	50.67	+7	−6	19.91	43.41	+9	−3	19.98	34.10	+4	+11
19	32.43	54.43	−5	−11	24.16	50.46	+10	−2	19.83	43.11	+11	+2	20.07	33.82	−1	+11
20	32.14	54.39	0	−11	23.94	50.25	+10	+4	19.75	42.81	+9	+7	20.17	33.54	−5	+8
21	31.84	54.34	+5	−9	23.72	50.03	+8	+8	19.68	42.51	+6	+10	20.27	33.26	−8	+5
22	31.54	54.29	+9	−5	23.51	49.81	+4	+10	19.61	42.20	+2	+11	20.38	32.98	−9	+1
23	31.25	54.23	+10	+1	23.30	49.58	0	+11	19.55	41.90	−3	+10	20.49	32.71	−8	−3
24	30.96	54.17	+10	+6	23.10	49.35	−4	+9	19.50	41.59	−7	+7	20.61	32.44	−5	−6
25	30.67	54.10	+7	+10	22.91	49.11	−7	+6	19.45	41.29	−8	+4	20.74	32.17	−2	−7
26	30.38	54.03	+3	+11	22.72	48.87	−9	+2	19.40	40.99	−9	−1	20.87	31.91	+2	−8
27	30.09	53.95	−2	+11	22.53	48.63	−8	−2	19.36	40.68	−7	−4	21.00	31.64	+5	−6
28	29.80	53.86	−5	+9	22.35	48.38	−6	−5	19.33	40.38	−4	−6	21.14	31.38	+8	−4
29	29.52	53.77	−8	+5	22.17	48.13	−3	−7	19.30	40.08	0	−7	21.28	31.12	+9	−1
30	29.24	53.67	−8	+1					19.28	39.77	+3	−7	21.43	30.87	+8	+2
31	28.96	53.56	−7	−2					19.27	39.47	+6	−6	21.58	30.62	+6	+4
32	28.68	53.45	−5	−5					19.26	39.17	+8	−3				

δ	sec δ	tg δ	δ	sec δ	tg δ
+85° 52′ 30″	13.902	+13.866	+85° 52′ 50″	13.921	+13.885
40	13.911	+13.875	60	13.930	+13.894

$\alpha_{1929.0} = 0^h\ 58^m\ 42^s.32$ $\delta_{1929.0} = +85°\ 52'\ 38''.03$

*) Tag der doppelten unteren Kulmination: April 6

Na) 43 Hev. Cephei $4^m.52$

Tag	Mai			Juni			Juli			August		
	AR.	Dekl.	☾ Glieder	AR.	Dekl.	☾ Glieder	AR.	Dekl.	☾ Glieder	AR.	Dekl.	☾ Glieder
	$0^h 58^m$	$+85° 52'$	in $0.^s01$ $0.''01$	$0^h 58^m$	$+85° 52'$	in $0.^s01$ $0.''01$	$0^h 58^m$	$+85° 52'$	in $0.^s01$ $0.''01$	$0^h 58^m$	$+85° 52'$	in $0.^s01$ $0.''01$
1	$21.^s58$	$30.''62$	+ 6 + 4	$28.^s37$	$24.''96$	− 8 + 3	$37.^s18$	$24.''17$	−11 − 8	$46.^s33$	$28.''48$	+ 5 − 9
2	21.74	30.38	+ 3 + 6	28.64	24.85	−11 − 1	37.49	24.23	− 8 −11	46.60	28.70	+ 9 − 5
3	21.90	30.14	− 1 + 6	28.91	24.75	−12 − 5	37.80	24.29	− 3 −12	46.87	28.92	+11 + 1
4	22.07	29.90	− 6 + 5	29.19	24.66	−10 − 9	38.10	24.36	+ 2 −11	47.14	29.15	+ 9 + 6
5	22.25	29.66	− 9 + 2	29.46	24.57	− 6 −11	38.41	24.44	+ 7 − 7	47.40	29.38	+ 6 +10
6	22.42	29.43	−11 − 2	29.74	24.48	0 −11	38.72	24.52	+10 − 2	47.66	29.62	+ 2 +11
7	22.60	29.20	−11 − 6	30.02	24.40	+ 5 − 9	39.02	24.60	+11 + 4	47.92	29.86	− 3 +11
8	22.79	28.98	− 8 − 9	30.30	24.33	+ 9 − 4	39.33	24.69	+ 8 + 8	48.18	30.10	− 7 + 8
9	22.98	28.76	− 3 −11	30.59	24.26	+11 + 1	39.63	24.79	+ 5 +11	48.44	30.35	− 9 + 4
10	23.17	28.54	+ 2 −10	30.88	24.20	+10 + 6	39.93	24.89	0 +12	48.69	30.60	− 8 0
11	23.37	28.33	+ 7 − 7	31.17	24.14	+ 8 +10	40.24	25.00	− 4 +10	48.94	30.86	− 6 − 3
12	23.57	28.12	+10 − 2	31.46	24.09	+ 4 +12	40.54	25.12	− 8 + 7	49.18	31.12	− 3 − 6
13	23.78	27.92	+11 + 4	31.75	24.05	− 2 +12	40.84	25.24	− 9 + 3	49.43	31.38	+ 1 − 7
14	23.99	27.72	+ 9 + 8	32.05	24.01	− 6 + 9	41.14	25.36	− 8 − 1	49.67	31.65	+ 5 − 6
15	24.21	27.53	+ 6 +11	32.34	23.97	− 8 + 5	41.44	25.49	− 5 − 4	49.91	31.92	+ 7 − 4
16	24.43	27.34	+ 1 +12	32.64	23.94	− 9 + 1	41.74	25.63	− 2 − 6	50.15	32.20	+ 9 − 1
17	24.65	27.15	− 4 +10	32.93	23.92	− 7 − 3	42.04	25.77	+ 2 − 6	50.38	32.48	+ 9 + 2
18	24.87	26.97	− 7 + 7	33.23	23.90	− 4 − 6	42.33	25.91	+ 5 − 5	50.61	32.77	+ 8 + 4
19	25.10	26.79	− 8 + 3	33.53	23.88	− 1 − 7	42.63	26.06	+ 8 − 3	50.84	33.06	+ 5 + 7
20	25.33	26.62	− 8 − 1	33.83	23.88	+ 3 − 7	42.93	26.22	+ 9 0	51.07	33.35	+ 1 + 8
21	25.57	26.45	− 6 − 4	34.14	23.88	+ 6 − 5	43.22	26.38	+ 9 + 2	51.29	33.64	− 3 + 7
22	25.81	26.29	− 3 − 7	34.44	23.88	+ 9 − 3	43.51	26.55	+ 7 + 5	51.51	33.94	− 7 + 5
23	26.05	26.13	+ 1 − 7	34.74	23.89	+ 9 0	43.80	26.72	+ 4 + 7	51.72	34.25	−10 + 1
24	26.30	25.98	+ 4 − 7	35.05	23.91	+ 8 + 3	44.09	26.89	− 1 + 7	51.94	34.55	−11 − 4
25	26.55	25.83	+ 7 − 5	35.35	23.93	+ 6 + 5	44.37	27.07	− 5 + 6	52.15	34.86	−10 − 8
26	26.80	25.69	+ 9 − 2	35.65	23.95	+ 2 + 7	44.66	27.26	− 9 + 3	52.35	35.17	− 7 −11
27	27.05	25.56	+ 9 + 1	35.96	23.98	− 3 + 6	44.94	27.45	−11 − 1	52.55	35.49	− 2 −12
28	27.31	25.43	+ 7 + 4	36.26	24.02	− 7 + 4	45.22	27.65	−11 − 6	52.75	35.81	+ 3 −11
29	27.57	25.30	+ 4 + 6	36.57	24.06	−10 + 1	45.50	27.85	− 9 −10	52.94	36.13	+ 8 − 7
30	27.83	25.18	0 + 6	36.88	24.11	−12 − 4	45.78	28.06	− 5 −12	53.13	36.46	+10 − 2
31	28.10	25.07	− 4 + 6	37.18	24.17	−11 − 8	46.06	28.27	0 −12	53.32	36.79	+10 + 3
32	28.37	24.96	− 8 + 3				46.33	28.48	+ 5 − 9	53.51	37.12	+ 8 + 8

δ	sec δ	tg δ	δ	sec δ	tg δ
+85° 52′ 20″	13.893	+13.857	+85° 52′ 30″	13.902	+13.866
30	13.902	+13.866	40	13.911	+13.875

$\alpha_{1929.0} = 0^h\ 58^m\ 42.^s32$ $\delta_{1929.0} = +85°\ 52'\ 38''.03$

Scheinbare Sternörter 1929

Obere Kulmination Greenwich

Na) 43 Hev. Cephei $4^m.52$

Tag	September AR.	September Dekl.	September ☾ Glieder	Oktober AR.	Oktober Dekl.	Oktober ☾ Glieder	November AR.	November Dekl.	November ☾ Glieder	Dezember AR.	Dezember Dekl.	Dezember ☾ Glieder
	0^h58^m	$+85°52'$	in $0^s.01$ $0''.01$	0^h58^m	$+85°52'$	in $0^s.01$ $0''.01$	0^h58^m	$+85°53'$	in $0^s.01$ $0''.01$	0^h58^m	$+85°53'$	in $0^s.01$ $0''.01$
1	53.51	37.12	+ 8 + 8	57.23	48.05	− 4 + 9	56.85	0.28	− 4 − 6	52.31	9.89	+ 6 − 5
2	53.69	37.45	+ 3 +10	57.29	48.44	− 8 + 6	56.76	0.64	0 − 7	52.09	10.15	+ 9 − 3
3	53.87	37.79	− 1 +11	57.34	48.82	− 9 + 2	56.67	1.00	+ 4 − 6	51.87	10.40	+10 0
4	54.04	38.13	− 5 + 9	57.39	49.21	− 9 − 2	56.57	1.36	+ 7 − 5	51.65	10.65	+ 9 + 3
5	54.21	38.47	− 8 + 5	57.44	49.60	− 6 − 5	56.47	1.72	+ 9 − 2	51.43	10.89	+ 7 + 6
6	54.38	38.81	− 9 + 1	{57.48 57.52	49.98 50.37	− 3 − 7 + 1 − 7}	56.36	2.07	+ 9 + 1	51.20	11.13	+ 3 + 7
7	54.54	39.16	− 8 − 2	57.55	50.76	+ 5 − 6	56.25	2.42	+ 8 + 4	50.97	11.36	− 1 + 7
8	54.70	39.51	− 5 − 5	57.58	51.15	+ 8 − 4	56.14	2.77	+ 5 + 6	50.73	11.59	− 5 + 5
9	54.86	39.86	− 1 − 7	57.60	51.54	+ 9 − 1	56.02	3.12	+ 2 + 7	50.49	11.81	− 9 + 2
10	55.01	40.22	+ 3 − 6	57.62	51.93	+ 9 + 2	55.89	3.46	− 3 + 7	50.25	12.03	−11 − 2
11	55.16	40.57	+ 6 − 5	57.63	52.31	+ 7 + 5	55.76	3.80	− 7 + 5	50.01	12.25	−11 − 6
12	55.30	40.93	+ 9 − 2	57.64	52.70	+ 4 + 7	55.63	4.14	−10 + 1	49.76	12.46	− 9 −10
13	55.44	41.29	+ 9 + 1	57.64	53.09	0 + 7	55.50	4.48	−11 − 3	49.51	12.66	− 5 −12
14	55.57	41.65	+ 9 + 3	57.64	53.48	− 4 + 6	55.36	4.81	−10 − 7	49.26	12.86	0 −12
15	55.70	42.02	+ 7 + 6	57.64	53.86	− 8 + 4	55.21	5.14	− 7 −10	49.01	13.05	+ 5 − 9
16	55.83	42.38	+ 3 + 8	57.63	54.25	−11 0	55.06	5.46	− 3 −12	48.75	13.24	+ 9 − 4
17	55.95	42.75	− 1 + 7	57.61	54.64	−11 − 4	54.91	5.78	+ 3 −11	48.49	13.42	+11 + 1
18	56.07	43.12	− 6 + 6	57.59	55.02	− 9 − 8	54.75	6.10	+ 7 − 7	48.22	13.59	+10 + 6
19	56.18	43.49	− 9 + 3	57.57	55.40	− 5 −11	54.59	6.42	+10 − 2	47.95	13.76	+ 7 +10
20	56.29	43.86	−11 − 2	57.54	55.79	0 −11	54.42	6.73	+11 + 4	47.68	13.92	+ 2 +12
21	56.40	44.24	−11 − 6	57.51	56.17	+ 5 − 9	54.25	7.04	+ 9 + 8	47.41	14.08	− 3 +11
22	56.50	44.62	− 8 − 9	57.47	56.55	+ 9 − 5	54.07	7.34	+ 5 +11	47.14	14.23	− 7 + 8
23	56.60	44.99	− 4 −11	57.43	56.93	+11 0	53.89	7.64	0 +12	46.87	14.38	− 9 + 4
24	56.69	45.37	+ 2 −11	57.38	57.31	+10 + 5	53.71	7.94	− 5 +10	46.59	14.52	− 9 0
25	56.78	45.75	+ 6 − 8	57.33	57.68	+ 7 + 9	53.52	8.23	− 8 + 6	46.31	14.65	− 7 − 4
26	56.87	46.13	+10 − 3	57.28	58.06	+ 3 +11	53.33	8.52	− 9 + 2	46.03	14.78	− 3 − 6
27	56.95	46.51	+10 + 2	57.22	58.44	− 2 +11	53.13	8.80	− 9 − 2	45.74	14.90	+ 1 − 7
28	57.03	46.89	+ 9 + 7	57.15	58.81	− 6 + 8	52.93	9.08	− 6 − 5	45.46	15.01	+ 5 − 6
29	57.10	47.28	+ 5 +10	57.08	59.18	− 9 + 4	52.73	9.35	− 2 − 7	45.17	15.12	+ 8 − 4
30	57.17	47.66	0 +11	57.01	59.55	− 9 0	52.52	9.62	+ 2 − 7	44.88	15.22	+ 9 − 1
31	57.23	48.05	− 4 + 9	56.93	59.91	− 7 − 4	52.31	9.89	+ 6 − 5	44.60	15.31	+10 + 2
32				56.85	60.28	− 4 − 6				44.31	15.40	+ 8 + 5

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
+85° 52′ 30″	13.902	+13.866	+85° 52′ 50″	13.921	+13.885	+85° 53′ 10″	13.939	+13.903
40	13.911	+13.875	53 0	13.930	+13.894	20	13.949	+13.913

$\alpha_{1929.0} = 0^h\ 58^m\ 42^s.32$ $\qquad \delta_{1929.0} = +85°\ 52'\ 38''.03$

Obere Kulmination Greenwich

Nb) α Ursae minoris $2^m.12$

Tag	Januar AR.	Januar Dekl.	Januar ☾ Glieder	Februar AR.	Februar Dekl.	Februar ☾ Glieder	März AR.	März Dekl.	März ☾ Glieder	April AR.	April Dekl.	April ☾ Glieder
	1^h35^m	+88° 55′	in 0.01s 0.01″	1^h35^m	+88° 55′	in 0.01s 0.01″	1^h34^m	+88° 55′	in 0.01s 0.01″	1^h34^m	+88° 55′	in 0.01s 0.01″
1	74.82	40.89	−22 + 9	39.18	42.20	−17 − 5	70.89	38.22	−11 − 6	54.23	29.89	+30 − 4
2	73.72	41.03	−29 + 5	38.04	42.14	− 6 − 7	70.07	38.00	+ 4 − 7	54.02	29.59	+33 − 2
3	72.62	41.16	−30 + 1	36.91	42.07	+ 7 − 7	69.26	37.78	+15 − 7	53.84	29.28	+29 + 2
4	71.52	41.29	−24 − 3	35.79	42.00	+20 − 7	68.47	37.55	+26 − 6	53.68	28.98	+20 + 5
5	70.40	41.41	−14 − 6	34.67	41.92	+29 − 5	67.70	37.32	+32 − 3	53.54	28.68	+ 6 + 7
6	69.27	41.52	− 1 − 7	33.56	41.83	+33 − 2	66.95	37.08	+33 0	53.42	28.38	−11 + 7
7	68.14	41.63	+12 − 8	32.45	41.74	+32 + 1	66.22	36.84	+27 + 3	53.33	28.07	−26 + 6
8	67.00	41.73	+23 − 7	31.36	41.64	+24 + 4	65.50	36.60	+16 + 6	53.25	27.77	−38 + 3
9	65.86	41.83	+31 − 4	30.27	41.53	+10 + 7	64.80	36.35	0 + 7	53.20	27.46	−42 − 1
10	64.72	41.92	+33 − 1	29.19	41.42	− 6 + 7	64.12	36.10	−16 + 7	53.17	27.16	−37 − 5
11	63.57	42.00	+29 + 2	28.12	41.30	−23 + 6	63.46	35.84	−31 + 5	53.16	26.86	−24 − 9
12	62.41	42.08	+19 + 5	27.06	41.18	−35 + 4	62.82	35.58	−40 + 1	53.18	26.55	− 5 −10
13	61.26	42.15	+ 4 + 7	26.01	41.05	−42 0	62.19	35.32	−41 − 3	53.21	26.25	+14 − 9
14	60.10	42.21	−13 + 7	24.97	40.91	−39 − 5	61.59	35.05	−32 − 7	53.27	25.94	+30 − 6
15	58.94	42.27	−29 + 5	23.94	40.77	−27 − 9	61.00	34.79	−17 −10	53.35	25.64	+40 − 1
16	57.77	42.32	−40 + 1	22.92	40.62	−10 −11	60.44	34.52	+ 2 −10	*)53.45	25.34	+39 + 4
17	56.60	42.36	−42 − 3	21.92	40.47	+ 9 −10	59.90	34.25	+21 − 8	53.57	25.03	+30 + 8
18	55.44	42.40	−35 − 7	20.92	40.31	+26 − 8	59.37	33.97	+34 − 5	53.72	24.73	+15 +11
19	54.27	42.43	−21 −10	19.94	40.14	+37 − 3	58.87	33.69	+39 0	53.88	24.44	− 2 +11
20	53.10	42.45	− 3 −11	18.97	39.97	+38 + 2	58.38	33.41	+36 + 5	54.07	24.14	−18 +10
21	51.93	42.46	+17 −10	18.01	39.79	+31 + 7	57.92	33.13	+24 + 9	54.28	23.84	−28 + 6
22	50.76	42.47	+31 − 6	17.07	39.61	+18 +10	57.48	32.84	+ 7 +11	54.51	23.55	−33 + 2
23	49.60	42.47	+38 − 1	16.14	39.43	+ 1 +11	57.05	32.56	− 9 +10	54.76	23.26	−29 − 2
24	48.43	42.47	+37 + 4	15.23	39.24	−15 +10	56.65	32.27	−23 + 8	55.03	22.97	−20 − 5
25	47.26	42.46	+27 + 9	14.33	39.04	−26 + 7	56.28	31.97	−30 + 5	55.32	22.68	− 8 − 7
26	46.09	42.44	+12 +11	13.45	38.84	−32 + 4	55.92	31.68	−32 + 1	55.63	22.39	+ 6 − 8
27	44.93	42.42	− 5 +11	12.58	38.64	−30 0	55.58	31.38	−26 − 3	55.96	22.11	+18 − 7
28	43.77	42.39	−19 +10	11.73	38.43	−21 − 4	55.27	31.08	−15 − 6	56.32	21.82	+27 − 5
29	42.62	42.35	−28 + 6	10.89	38.22	−11 − 6	54.98	30.79	− 3 − 7	56.69	21.54	+32 − 3
30	41.47	42.31	−31 + 2				54.71	30.49	+11 − 8	57.08	21.26	+31 0
31	40.32	42.26	−27 − 1				54.46	30.19	+23 − 7	57.49	20.98	+24 + 3
32	39.18	42.20	−17 − 5				54.23	29.89	+30 − 4			

δ	sec δ	tg δ	δ	sec δ	tg δ
+88° 55′ 20″	53.164	+53.155	+88° 55′ 40″	53.440	+53.430
30	53.302	+53.292	50	53.578	+53.569

$\alpha_{1929.0} = 1^h\ 36^m\ 20^s.24$ $\delta_{1929.0} = +88°\ 55'\ 24''.36$

*) Tag der doppelten unteren Kulmination: April 16

Scheinbare Sternörter 1929

Obere Kulmination Greenwich

Nb) α Ursae minoris $2^{m}.12$

Tag	Mai				Juni				Juli				August			
	AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder	
	$1^{h}34^{m}$	+88° 55′	in $0^{s}.01$	in $0''.01$	$1^{h}35^{m}$	+88° 55′	in $0^{s}.01$	in $0''.01$	$1^{h}35^{m}$	+88° 55′	in $0^{s}.01$	in $0''.01$	$1^{h}36^{m}$	+88° 55′	in $0^{s}.01$	in $0''.01$
1	57.49	20.98	+24	+3	18.88	14.09	−31	+4	50.57	11.61	−41	−6	26.43	14.13	+18	−10
2	57.92	20.71	+11	+6	19.81	13.93	−40	+1	51.72	11.61	−30	−10	27.55	14.29	+32	−6
3	58.37	20.44	−4	+7	20.74	13.78	−43	−3	52.87	11.62	−13	−12	28.66	14.46	+39	−1
4	58.84	20.17	−21	+6	21.69	13.63	−37	−8	54.03	11.63	+8	−11	29.77	14.64	+35	+4
5	59.33	19.91	−34	+3	22.65	13.49	−23	−10	55.19	11.65	+25	−8	30.87	14.82	+24	+9
6	59.84	19.64	−42	0	23.62	13.35	−4	−11	56.35	11.67	+37	−4	31.97	15.00	+8	+11
7	60.36	19.38	−41	−4	24.60	13.22	+16	−9	57.52	11.70	+40	+2	33.06	15.19	−10	+11
8	60.91	19.12	−31	−8	25.59	13.09	+32	−6	58.68	11.73	+32	+7	34.14	15.38	−23	+9
9	61.47	18.87	−14	−10	26.59	12.97	+40	0	59.85	11.77	+19	+11	35.22	15.58	−32	+6
10	62.05	18.62	+6	−10	27.60	12.85	+39	+5	61.02	11.81	+2	+12	36.29	15.78	−31	+1
11	62.65	18.37	+25	−8	28.63	12.74	+29	+9	62.19	11.86	−14	+11	37.36	15.99	−24	−2
12	63.27	18.13	+37	−3	29.66	12.63	+13	+12	63.36	11.92	−26	+8	38.41	16.20	−13	−5
13	63.90	17.89	+41	+2	30.69	12.53	−4	+12	64.53	11.98	−31	+4	39.46	16.41	+2	−7
14	64.55	17.65	+36	+7	31.74	12.43	−19	+10	65.70	12.05	−29	0	40.50	16.63	+16	−7
15	65.21	17.42	+23	+10	32.80	12.34	−29	+7	66.87	12.12	−20	−4	41.54	16.86	+27	−5
16	65.89	17.19	+6	+12	33.86	12.25	−31	+2	68.04	12.20	−8	−6	42.56	17.09	+34	−3
17	66.59	16.96	−11	+11	34.93	12.17	−27	−2	69.20	12.28	+7	−7	43.58	17.32	+34	0
18	67.31	16.74	−25	+8	36.01	12.10	−16	−5	70.37	12.37	+19	−6	44.59	17.56	+30	+3
19	68.04	16.52	−31	+4	37.09	12.03	−3	−7	71.53	12.46	+29	−5	45.59	17.80	+20	+6
20	68.79	16.31	−31	0	38.18	11.96	+10	−7	72.69	12.56	+34	−2	46.58	18.05	+5	+8
21	69.55	16.10	−24	−4	39.28	11.90	+23	−6	73.85	12.66	+33	+1	47.57	18.30	−11	+8
22	70.33	15.89	−13	−6	40.38	11.85	+31	−4	75.01	12.77	+27	+4	48.54	18.55	−27	+6
23	71.12	15.69	+1	−8	41.49	11.80	+34	−1	76.17	12.88	+15	+6	49.50	18.81	−38	+2
24	71.93	15.49	+15	−8	42.61	11.76	+31	+2	77.32	13.00	−1	+7	50.46	19.07	−42	−2
25	72.75	15.30	+26	−6	43.73	11.72	+22	+5	78.47	13.13	−18	+7	51.40	19.34	−38	−6
26	73.59	15.11	+32	−4	44.86	11.69	+8	+6	79.62	13.26	−32	+4	52.34	19.61	−26	−10
27	74.44	14.93	+33	−1	45.99	11.66	−8	+7	80.76	13.39	−41	0	53.26	19.88	−8	−12
28	75.30	14.75	+28	+2	47.13	11.64	−25	+5	81.90	13.53	−43	−4	54.17	20.16	+11	−11
29	76.17	14.58	+17	+5	48.27	11.63	−37	+2	83.04	13.67	−35	−8	55.07	20.44	+28	−8
30	77.06	14.41	+2	+6	49.42	11.62	−44	−2	84.18	13.82	−20	−11	55.96	20.73	+37	−3
31	77.97	14.25	−15	+6	50.57	11.61	−41	−6	85.31	13.97	−1	−12	56.84	21.02	+37	+2
32	78.88	14.09	−31	+4					86.43	14.13	+18	−10	57.71	21.31	+29	+7

δ	sec δ	tg δ	δ	sec δ	tg δ
+88° 55′ 10″	53.027	+53.018	+88° 55′ 20″	53.164	+53.155
20	53.164	+53.155	30	53.302	+53.292

$\alpha_{1929,0} = 1^{h}\ 36^{m}\ 20^{s}.24$. $\qquad \delta_{1929,0} = +88°\ 55'\ 24''.36$

Obere Kulmination Greenwich

Nb) α Ursae minoris $2^m.12$

Tag	September			Oktober			November			Dezember		
	AR.	Dekl.	☾ Glieder	AR.	Dekl.	☾ Glieder	AR.	Dekl.	☾ Glieder	AR.	Dekl.	☾ Glieder
	$1^h 36^m$	+88° 55′	in 0.01ˢ 0.01″	$1^h 37^m$	+88° 55′	in 0.01ˢ 0.01″	$1^h 37^m$	+88° 55′	in 0.01ˢ 0.01″	$1^h 36^m$	+88° 55′	in 0.01ˢ 0.01″
1	57.71	21.31	+29 + 7	17.62	31.47	−14 +10	22.87	43.76	−16 − 6	70.66	54.28	+22 − 6
2	58.56	21.61	+14 +10	18.05	31.84	−27 + 8	22.73	44.15	− 1 − 7	69.97	54.58	+31 − 4
3	59.40	21.91	− 4 +11	18.47	32.22	−34 + 4	22.58	44.53	+13 − 7	69.27	54.88	+35 − 1
4	60.24	22.21	−19 +10	18.87	32.60	−32 0	22.40	44.90	+25 − 6	68.55	55.18	+33 + 2
5	61.06	22.52	−30 + 7	19.25	32.97	−23 − 4	22.21	45.28	+33 − 3	67.82	55.47	+25 + 5
6	61.86	22.83	−33 + 3	19.62	33.35	−11 − 6	22.00	45.66	+35 0	67.07	55.76	+13 + 6
7	62.66	23.14	−29 − 1	19.97	33.73	+ 5 − 7	21.76	46.03	+31 + 3	66.30	56.04	− 3 + 7
8	63.44	23.45	−18 − 5	20.31	34.11	+18 − 7	21.51	46.40	+21 + 5	65.52	56.32	−19 + 6
9	64.21	23.77	− 4 − 7	20.62	34.49	+29 − 5	21.25	46.77	+ 7 + 7	64.72	56.60	−33 + 4
10	64.96	24.09	+10 − 7	20.92	34.88	+34 − 2	20.96	47.14	−10 + 7	63.91	56.87	−42 0
11	65.71	24.42	+23 − 6	21.21	35.26	+34 + 1	20.65	47.51	−25 + 6	63.08	57.14	−44 − 5
12	66.44	24.75	+31 − 4	21.47	35.64	+28 + 4	20.33	47.87	−37 + 3	62.24	57.40	−35 − 9
13	67.16	25.08	+35 − 1	21.72	36.03	+17 + 6	19.98	48.23	−43 − 1	61.38	57.66	−19 −11
14	67.87	25.42	+32 + 2	21.95	36.41	+ 2 + 7	19.62	48.59	−40 − 5	60.51	57.91	− 1 −12
15	68.56	25.76	+25 + 5	22.16	36.80	−15 + 7	19.24	48.95	−29 − 9	59.62	58.15	+19 −10
16	69.24	26.10	+11 + 7	(22.35 22.53)	37.18 37.57	(−28 + 5 −39 + 2)	18.84	49.30	−11 −11	58.72	58.39	+33 − 6
17	69.90	26.44	− 5 + 8	22.69	37.96	−41 − 2	18.42	49.66	+ 8 −11	57.80	58.62	+40 − 1
18	70.55	26.79	−21 + 7	22.83	38.35	−36 − 7	17.98	50.01	+26 − 8	56.88	58.85	+37 + 5
19	71.19	27.13	−33 + 4	22.95	38.73	−22 −10	17.52	50.35	+38 − 3	55.94	59.07	+26 + 9
20	71.81	27.48	−41 0	23.05	39.12	− 3 −11	17.05	50.70	+40 + 2	54.99	59.29	+ 9 +12
21	72.41	27.84	−40 − 4	23.14	39.51	+16 −10	16.56	51.04	+33 + 7	54.02	59.50	− 9 +12
22	73.00	28.19	−31 − 8	23.21	39.90	+32 − 6	16.05	51.38	+19 +11	53.04	59.71	−24 + 9
23	73.58	28.55	−15 −11	23.25	40.29	+40 − 2	15.52	51.72	+ 1 +12	52.06	59.91	−32 + 6
24	74.14	28.90	+ 4 −11	23.28	40.67	+38 + 4	14.97	52.05	−16 +11	51.06	60.11	−32 + 1
25	74.68	29.26	+23 − 9	23.30	41.06	+28 + 8	14.41	52.38	−29 + 8	50.05	60.30	−25 − 3
26	75.21	29.63	+35 − 5	23.29	41.45	+11 +11	13.83	52.71	−34 + 3	49.03	60.48	−12 − 6
27	75.72	29.99	+39 0	23.26	41.84	− 7 +12	13.23	53.03	−31 − 1	48.00	60.66	+ 3 − 7
28	76.22	30.36	+34 + 5	23.22	42.22	−23 + 9	12.61	53.35	−21 − 5	46.95	60.83	+17 − 7
29	76.70	30.72	+21 + 9	23.16	42.61	−32 + 6	11.98	53.66	− 7 − 7	45.90	61.00	+29 − 5
30	77.17	31.09	+ 3 +11	23.08	42.99	−34 + 1	11.33	53.97	+ 8 − 7	44.84	61.16	+35 − 2
31	77.62	31.47	−14 +10	22.98	43.38	−28 − 3	10.66	54.28	+22 − 6	43.77	61.32	+35 + 1
32				22.87	43.76	−16 − 6				42.69	61.47	+30 + 4

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
+88° 55′ 20″	53.164	+53.155	+88° 55′ 40″	53.440	+53.430	+88° 56′ 0″	53.718	+53.709
30	53.302	+53.292	50	53.578	+53.569	10	53.858	+53.849

$\alpha_{1929.0} = 1^h\ 36^m\ 20^s.24$ $\delta_{1929.0} = +88°\ 55'\ 24''.36$

Scheinbare Sternörter 1929

Obere Kulmination Greenwich

Nc) Grb 750 $6^m.70$

Tag	Januar				Februar				März				April			
	AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder	
	$4^h 13^m$	$+85° 22'$	in 0.01^s	$0.01''$	$4^h 13^m$	$+85° 22'$	in 0.01^s	$0.01''$	$4^h 13^m$	$+85° 22'$	in 0.01^s	$0.01''$	$4^h 13^m$	$+85° 22'$	in 0.01^s	$0.01''$
1	$42^s.33$	$13''.00$	+ 1	+11	$36^s.93$	$20''.14$	− 6	− 1	$29^s.98$	$21''.98$	− 6	− 4	$22^s.78$	$18''.57$	+ 3	− 9
2	42.22	13.29	− 3	+ 9	36.70	20.29	− 5	− 5	29.72	21.96	− 4	− 7	22.59	18.37	+ 5	− 7
3	42.10	13.58	− 5	+ 5	36.47	20.43	− 3	− 7	29.47	21.93	− 1	− 9	22.40	18.17	+ 7	− 3
4	41.98	13.87	− 6	+ 2	36.24	20.56	0	− 9	29.21	21.89	+ 2	− 9	22.22	17.97	+ 7	+ 1
5	41.85	14.15	− 6	− 2	36.00	20.69	+ 3	− 9	28.96	21.85	+ 4	− 8	22.04	17.77	+ 5	+ 5
6	41.72	14.43	− 5	− 6	35.77	20.82	+ 5	− 7	28.71	21.80	+ 6	− 5	21.86	17.56	+ 2	+ 8
7	41.59	14.71	− 2	− 8	35.53	20.94	+ 7	− 4	28.46	21.74	+ 7	− 2	21.69	17.35	− 2	+ 9
8	41.45	14.98	+ 1	− 9	35.29	21.05	+ 7	0	28.21	21.68	+ 7	+ 2	21.52	17.13	− 6	+ 8
9	41.31	15.25	+ 3	− 9	35.05	21.16	+ 6	+ 4	27.96	21.62	+ 4	+ 6	21.36	16.91	− 9	+ 6
10	41.16	15.52	+ 6	− 6	34.80	21.26	+ 3	+ 7	27.71	21.55	+ 1	+ 9	21.20	16.69	−11	+ 1
11	41.00	15.78	+ 7	− 3	34.56	21.35	− 1	+ 9	27.46	21.47	− 3	+ 9	21.04	16.46	−10	− 3
12	40.84	16.04	+ 7	+ 1	34.31	21.44	− 5	+ 9	27.21	21.39	− 7	+ 8	20.89	16.23	− 7	− 7
13	40.68	16.29	+ 5	+ 5	34.06	21.52	− 9	+ 6	26.97	21.30	−10	+ 4	20.74	15.99	− 2	−10
14	40.52	16.54	+ 1	+ 8	33.81	21.59	−11	+ 2	26.73	21.20	−11	− 1	20.60	15.75	+ 3	−10
15	40.35	16.78	− 3	+ 9	33.56	21.66	−11	− 3	26.49	21.10	− 9	− 5	20.46	15.51	+ 7	− 8
16	40.18	17.02	− 7	+ 8	33.31	21.72	− 8	− 7	26.25	21.00	− 6	− 9	20.33	15.26	+10	− 3
17	40.00	17.25	−10	+ 5	33.06	21.78	− 4	−10	26.02	20.89	− 1	−10	20.20	15.02	+11	+ 2
18	39.82	17.48	−11	0	32.80	21.83	+ 1	−11	25.78	20.77	+ 4	− 9	20.07	14.77	+ 9	+ 6
19	39.64	17.70	−10	− 5	32.55	21.88	+ 5	− 8	25.55	20.65	+ 8	− 6	19.95	14.52	+ 6	+10
20	39.45	17.92	− 7	− 9	32.29	21.92	+ 9	− 5	25.32	20.52	+10	− 2	19.83	14.26	+ 2	+11
21	39.26	18.13	− 2	−11	32.03	21.95	+10	0	25.09	20.38	+10	+ 3	19.72	14.00	− 2	+10
22	39.06	18.34	+ 3	−10	31.78	21.97	+ 9	+ 5	24.87	20.24	+ 8	+ 8	19.61	13.74	− 5	+ 7
23	38.86	18.54	+ 7	− 7	31.52	21.99	+ 7	+ 9	24.65	20.09	+ 4	+10	19.50	13.48	− 7	+ 3
24	38.65	18.74	+10	− 2	31.26	22.01	+ 3	+11	24.43	19.94	0	+11	19.40	13.21	− 7	− 1
25	38.45	18.93	+11	+ 3	31.00	22.02	− 1	+10	24.21	19.78	− 3	+ 9	19.31	12.94	− 6	− 5
26	38.24	19.12	+ 9	+ 7	30.75	22.02	− 4	+ 8	24.00	19.62	− 6	+ 6	19.22	12.67	− 4	− 7
27	38.03	19.30	+ 6	+10	30.49	22.01	− 6	+ 5	23.79	19.46	− 7	+ 2	19.13	12.40	− 1	− 9
28	37.82	19.48	+ 2	+11	30.24	22.00	− 7	0	23.58	19.29	− 7	− 2	19.05	12.13	+ 2	− 9
29	37.60	19.65	− 2	+10	29.98	21.98	− 6	− 4	23.38	19.12	− 5	− 6	18.98	11.86	+ 5	− 8
30	37.38	19.82	− 5	+ 7					23.18	18.94	− 2	− 8	18.91	11.58	+ 6	− 5
31	37.16	19.98	− 6	+ 3					22.98	18.76	0	− 9	18.85	11.30	+ 7	− 1
32	36.93	20.14	− 6	− 1					22.78	18.57	+ 3	− 9				

δ	sec δ	tg δ	δ	sec δ	tg δ
+85° 22′ 10″	12.387	+12.346	+85° 22′ 20″	12.394	+12.354
20	12.394	+12.354	30	12.402	+12.361

$\alpha_{1929.0} = 4^h\ 13^m\ 35^s.33$ $\delta_{1929.0} = +85°\ 21'\ 59''.51$

Nc) Grb 750 6^m.70

Tag	Mai AR.	Mai Dekl.	Mai ☾ Glieder	Juni AR.	Juni Dekl.	Juni ☾ Glieder	Juli AR.	Juli Dekl.	Juli ☾ Glieder	August AR.	August Dekl.	August ☾ Glieder
	$4^h\,13^m$	$+85°\,22'$	in $0.^s01$ $0.''01$	$4^h\,13^m$	$+85°\,21'$	in $0.^s01$ $0.''01$	$4^h\,13^m$	$+85°\,21$	in $0.^s01$ $0.''01$	$4^h\,13^m$	$+85°\,21'$	in $0.^s01$ $0.''01$
1	18.85	11.30	+ 7 − 1	19.29	62.45	− 4 + 9	23.96	55.22	−12 + 2	31.97	51.08	− 2 −11
2	18.79	11.01	+ 5 + 3	19.38	62.17	− 8 + 7	24.17	55.03	−12 − 3	32.26	51.02	+ 3 −10
3	18.73	10.73	+ 3 + 6	19.48	61.89	−11 + 4	24.39	54.84	−10 − 8	32.56	50.96	+ 7 − 7
4	18.68	10.45	− 1 + 8	19.59	61.62	−12 0	24.62	54.66	− 5 −10	32.86	50.90	+10 − 2
5	18.64	10.16	− 5 + 9	19.69	61.35	−11 − 5	24.84	54.47	0 −11	33.16	50.85	+10 + 3
6	18.60	9.88	− 9 + 7	19.80	61.08	− 7 − 9	25.07	54.29	+ 5 − 9	33.46	50.81	+ 8 + 8
7	18.56	9.60	−11 + 3	19.92	60.82	− 2 −11	25.30	54.12	+ 9 − 5	33.76	50.78	+ 5 +11
8	18.53	9.31	−11 − 2	20.04	60.56	+ 3 −10	25.53	53.95	+11 + 1	34.06	50.75	+ 1 +11
9	18.51	9.03	− 9 − 6	20.16	60.30	+ 8 − 7	25.77	53.78	+10 + 6	34.36	50.72	− 3 +10
10	18.49	8.74	− 5 − 9	20.29	60.04	+11 − 2	26.01	53.62	+ 8 +10	34.67	50.70	− 5 + 6
11	18.47	8.45	0 −10	20.42	59.78	+11 + 3	26.26	53.46	+ 4 +11	34.97	50.68	− 6 + 2
12	18.46	8.16	+ 5 − 9	20.56	59.52	+10 + 7	26.50	53.30	0 +11	35.28	50.66	− 6 − 2
13	18.46	7.87	+ 9 − 5	20.70	59.27	+ 6 +11	26.75	53.15	− 4 + 9	35.59	50.65	− 4 − 6
14	18.46	7.58	+11 0	20.85	59.02	+ 2 +11	27.01	53.00	− 6 + 5	35.89	50.64	− 1 − 8
15	18.46	7.29	+11 + 5	21.00	58.77	− 2 +10	27.26	52.86	− 6 0	36.20	50.64	+ 2 − 9
16	18.47	7.00	+ 8 + 8	21.15	58.53	− 5 + 7	27.52	52.72	− 5 − 4	36.52	50.64	+ 5 − 8
17	18.49	6.71	+ 4 +11	21.31	58.29	− 6 + 3	27.78	52.59	− 3 − 7	36.83	50.65	+ 7 − 5
18	18.51	6.43	0 +11	21.47	58.05	− 6 − 1	28.04	52.46	0 − 9	37.14	50.67	+ 8 − 2
19	18.53	6.14	− 3 + 9	21.64	57.81	− 5 − 5	28.31	52.33	+ 3 − 9	37.45	50.68	+ 7 + 2
20	18.56	5.85	− 6 + 5	21.81	57.58	− 2 − 8	28.58	52.21	+ 5 − 7	37.76	50.70	+ 5 + 5
21	18.59	5.56	− 7 + 1	21.99	57.35	+ 1 − 9	28.85	52.09	+ 7 − 5	38.08	50.73	+ 2 + 8
22	18.63	5.27	− 6 − 3	22.17	57.12	+ 3 − 9	29.12	51.98	+ 8 − 1	38.39	50.76	− 2 + 9
23	18.67	4.99	− 4 − 6	22.35	56.89	+ 6 − 7	29.40	51.87	+ 7 + 3	38.71	50.80	− 6 + 8
24	18.72	4.70	− 2 − 9	22.54	56.67	+ 7 − 4	29.68	51.77	+ 4 + 6	39.02	50.84	−10 + 5
25	18.78	4.42	+ 1 − 9	22.73	56.45	+ 7 0	29.96	51.67	0 + 9	39.33	50.88	−11 + 1
26	*)18.84	4.13	+ 4 − 8	22.93	56.24	+ 5 + 4	30.24	51.57	− 4 + 9	39.65	50.93	−11 − 4
27	18.90	3.85	+ 6 − 6	23.13	56.03	+ 2 + 7	30.52	51.48	− 8 + 7	39.96	50.98	− 9 − 8
28	18.97	3.57	+ 7 − 2	23.33	55.82	− 2 + 9	30.80	51.39	−11 + 4	40.28	51.04	− 4 −11
29	19.04	3.29	+ 6 + 1	23.53	55.62	− 6 + 8	31.09	51.31	−12 − 1	40.60	51.10	+ 1 −11
30	19.12	3.01	+ 4 + 5	23.74	55.42	−10 + 6	31.38	51.23	−11 − 6	40.91	51.17	+ 5 − 9
31	19.20	2.73	+ 1 + 8	23.96	55.22	−12 + 2	31.67	51.15	− 7 −10	41.23	51.24	+ 9 − 4
32	19.29	2.45	− 4 + 9				31.97	51.08	− 2 −11	41.54	51.32	+10 + 1

δ	sec δ	tg δ	δ	sec δ	tg δ
+85° 21′ 50″	12.372	+12.332	+85° 22′ 10″	12.387	+12.346
22 0	12.379	+12.339	20	12.394	+12.354

$\alpha_{1929.0} = 4^h\ 13^m\ 35^s.33$ $\delta_{1929.0} = +85°\ 21'\ 59''.51$

*) Tag der doppelten unteren Kulmination: Mai 26

Scheinbare Sternörter 1929

Obere Kulmination Greenwich

Nc) Grb 750 6ᵐ.70

Tag	September AR.	September Dekl.	September ☾ Glieder	Oktober AR.	Oktober Dekl.	Oktober ☾ Glieder
	$4^h 13^m$	+85° 21′	in 0ˢ.01 0″.01	$4^h 13^m$	+85° 21′	in 0ˢ.01 0″.01
1	41.54	51.32	+10 +1	50.57	55.72	+3 +11
2	41.85	51.41	+9 +6	50.84	55.94	−1 +11
3	42.17	51.49	+6 +10	51.12	56.15	−4 +9
4	42.48	51.58	+2 +11	51.39	56.37	−7 +5
5	42.79	51.68	−2 +10	51.66	56.59	−7 0
6	43.11	51.78	−5 +7	51.93	56.82	−6 −4
7	43.42	51.88	−6 +4	52.20	57.05	−3 −7
8	43.73	51.99	−6 −1	52.46	57.29	0 −9
9	44.04	52.11	−5 −5	52.72	57.53	+3 −9
10	44.35	52.23	−2 −8	52.98	57.77	+5 −7
11	44.66	52.35	+1 −9	53.24	58.01	+7 −5
12	44.97	52.48	+4 −8	53.49	58.26	+8 −1
13	45.28	52.61	+6 −7	53.74	58.51	+7 +2
14	45.58	52.75	+8 −4	53.99	58.77	+5 +6
15	45.89	52.89	+8 0	54.24	59.03	+1 +8
16	46.19	53.03	+6 +4	54.48	59.29	−3 +9
17	46.49	53.18	+4 +7	54.72	59.56	−7 +8
18	46.79	53.33	0 +9	54.96	59.83	−10 +5
19	47.09	53.49	−4 +9	55.19	60.11	−11 0
20	47.39	53.65	−8 +7	55.42	60.38	−10 −5
21	47.69	53.82	−11 +3	55.65	60.66	−7 −9
22	47.99	53.99	−11 −2	55.87	60.95	−3 −11
23	48.28	54.17	−9 −6	56.09	61.23	+2 −10
24	48.57	54.35	−6 −10	56.31	61.52	+7 −8
25	48.86	54.53	−1 −11	56.52	61.81	+10 −3
26	49.15	54.72	+4 −10	56.73	62.10	+10 +2
27	49.44	54.91	+8 −6	56.94	62.40	+9 +7
28	49.73	55.11	+10 −1	57.15	62.70	+5 +10
29	50.01	55.31	+9 +4	57.35	63.01	+1 +11
30	50.29	55.51	+7 +8	57.55	63.31	−3 +10
31	50.57	55.72	+3 +11	57.74	63.62	−6 +6
32				57.93	63.93	−7 +2

Tag	November AR.	November Dekl.	November ☾ Glieder	Dezember AR.	Dezember Dekl.	Dezember ☾ Glieder
	$4^h 13^m$	+85° 22′	in 0ˢ.01 0″.01	$4^h 14^m$	+85° 22′	in 0ˢ.01 0″.01
1	57.93	3.93	−7 +2	1.68	14.36	0 −9
2	58.11	4.24	−7 −2	1.72	14.71	+4 −9
3	58.29	4.56	−5 −6	1.76	15.05	+6 −7
4	58.47	4.87	−2 −8	1.80	15.40	+7 −4
5	58.64	5.19	+1 −9	1.83	15.75	+8 0
6	58.81	5.51	+5 −8	1.86	16.10	+6 +3
7	58.98	5.84	+7 −6	1.88	16.44	+4 +6
8	59.14	6.16	+8 −3	1.89	16.79	0 +8
9	59.30	6.49	+7 +1	1.90	17.14	−4 +9
10	59.45	6.82	+5 +5	1.91	17.48	−8 +7
11	59.60	7.15	+2 +8	1.91	17.82	−11 +3
12	59.74	7.48	−2 +9	1.90	18.16	−12 −1
13	59.88	7.82	−6 +8	1.89	18.50	−11 −6
14	60.02	8.15	−9 +6	1.88	18.84	−7 −10
15	60.15	8.48	−11 +2	1.86	19.18	−2 −11
16	60.28	8.82	−11 −3	1.83	19.51	+3 −10
17	60.40	9.16	−9 −7	1.80	19.84	+8 −7
18	60.52	9.51	−5 −10	1.77	20.18	+10 −2
19	60.64	9.85	0 −11	1.73	20.51	+11 +3
20	60.75	10.19	+6 −9	1.68	20.83	+9 +8
21	60.85	10.54	+9 −5	1.63	21.16	+5 +11
22	60.95	10.88	+11 0	1.58	21.49	+1 +12
23	61.05	11.22	+10 +5	1.52	21.81	−3 +10
24	61.14	11.57	+7 +9	1.45	22.14	−6 +6
25	61.22 / 61.30	11.91 / 12.26	+3 +11 / −1 +11	1.38	22.46	−6 +2
26	61.38	12.61	−5 +8	1.31	22.77	−6 −3
27	61.45	12.96	−7 +4	1.23	23.08	−3 −6
28	61.51	13.31	−7 0	1.14	23.39	0 −8
29	61.57	13.66	−5 −4	1.05	23.70	+3 −9
30	61.63	14.01	−3 −7	0.96	24.01	+6 −8
31	61.68	14.36	0 −9	0.86	24.31	+7 −5
32				0.75	24.61	+8 −2

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
+85° 21′ 50″	12.372	+12.332	+85° 22′ 10″	12.387	+12.346	+85° 22′ 20″	12.394	+12.354
22 0	12.379	+12.339	20	12.394	+12.354	30	12.402	+12.361

$\alpha_{1929.0} = 4^h\ 13^m 35^s.33$ $\delta_{1929.0} = +85°\ 21'\ 59''.51$

Obere Kulmination Greenwich

Nd) 51 Hev. Cephei $5^m.26$

Tag	Januar AR.	Januar Dekl.	Januar ☾ Glieder	Februar AR.	Februar Dekl.	Februar ☾ Glieder	März AR.	März Dekl.	März ☾ Glieder	April AR.	April Dekl.	April ☾ Glieder
	$7^h 8^m$	+87° 9′	in 0.01s 0.01″	$7^h 8^m$	+87° 10′	in 0.01s 0.01″	$7^h 7^m$	+87° 10′	in 0.01s 0.01″	$7^h 7^m$	+87° 10′	in 0.01s 0.01″
1	13.37	49.75	+15 + 5	14.02	0.04	− 8 + 3	67.60	7.38	−10 + 1	55.87	11.04	− 4 − 9
2	13.53	50.07	+10 + 8	13.90	0.35	−10 0	67.27	7.58	−11 − 3	55.46	11.06	+ 1 − 9
3	13.68	50.39	+ 4 + 9	13.77	0.65	−10 − 4	66.94	7.78	− 9 − 6	55.05	11.08	+ 5 − 7
4	13.82	50.71	− 2 + 8	13.62	0.95	− 8 − 7	66.60	7.97	− 6 − 8	54.64	11.09	+ 9 − 4
5	13.95	51.03	− 6 + 5	13.47	1.25	− 5 − 9	66.26	8.16	− 2 − 9	54.23	11.10	+10 0
6	14.07	51.36	−10 + 2	13.31	1.54	0 − 9	65.92	8.34	+ 3 − 9	53.82	11.10	+ 9 + 5
7	14.19	51.68	−11 − 2	13.14	1.83	+ 5 − 8	65.57	8.52	+ 7 − 6	53.42	11.09	+ 6 + 9
8	{14.29 14.39	52.00 52.32	−10 −5 − 7 −8}	12.96	2.12	+ 9 − 5	65.22	8.69	+10 − 2	53.01	11.08	0 +11
9	14.47	52.65	− 3 − 9	12.77	2.41	+11 − 1	64.87	8.85	+10 + 2	52.61	11.06	− 6 +11
10	14.55	52.97	+ 2 − 9	12.58	2.70	+10 + 4	64.51	9.01	+ 9 + 7	52.21	11.04	−11 + 8
11	14.62	53.30	+ 6 − 7	12.38	2.98	+ 7 + 8	64.15	9.16	+ 4 +10	51.80	11.00	−15 + 4
12	14.68	53.62	+ 9 − 3	12.17	3.26	+ 1 +11	63.78	9.31	− 2 +11	51.40	10.96	−15 − 1
13	14.73	53.95	+10 + 1	11.95	3.54	− 5 +11	63.40	9.45	− 8 +10	51.00	10.92	−11 − 6
14	14.77	54.28	+ 9 + 6	11.73	3.81	−11 + 9	63.02	9.59	−13 + 7	50.60	10.87	− 5 −10
15	14.81	54.60	+ 4 + 9	11.50	4.08	−15 + 5	62.64	9.72	−15 + 2	50.20	10.81	+ 2 −11
16	14.83	54.93	− 2 +11	11.27	4.34	−16 0	62.26	9.84	−14 − 3	49.81	10.75	+ 9 − 9
17	14.85	55.26	− 8 +11	11.03	4.60	−14 − 5	61.87	9.96	−10 − 8	49.42	10.69	+15 − 6
18	14.85	55.58	−14 + 7	10.78	4.85	− 8 − 9	61.49	10.07	− 3 −10	49.03	10.62	+17 − 1
19	14.85	55.91	−17 + 3	10.52	5.10	− 1 −11	61.10	10.18	+ 4 −10	48.64	10.54	+16 + 3
20	14.84	56.23	−16 − 2	10.25	5.35	+ 7 −10	60.71	10.28	+11 − 8	48.26	10.46	+12 + 7
21	14.82	56.56	−12 − 7	9.98	5.60	+13 − 6	60.32	10.38	+15 − 4	47.87	10.37	+ 6 + 9
22	14.79	56.88	− 5 −10	9.70	5.84	+16 − 2	59.92	10.47	+16 + 1	47.49	10.27	0 + 9
23	14.75	57.21	+ 3 −11	9.41	6.07	+16 + 2	59.51	10.55	+14 + 5	47.12	10.17	− 5 + 7
24	14.70	57.53	+10 − 9	9.12	6.30	+13 + 6	59.11	10.63	+10 + 8	46.75	10.07	− 9 + 4
25	14.64	57.85	+15 − 5	8.83	6.53	+ 8 + 9	58.71	10.70	+ 4 + 9	46.38	9.96	−11 0
26	14.57	58.17	+16 0	8.53	6.75	+ 2 + 9	58.30	10.77	− 2 + 9	46.01	9.84	−11 − 4
27	14.50	58.48	+15 + 4	8.22	6.96	− 3 + 8	57.90	10.83	− 7 + 6	45.65	9.72	− 9 − 7
28	14.42	58.80	+12 + 7	7.91	7.17	− 8 + 4	57.50	10.88	−10 + 2	45.30	9.60	− 5 − 9
29	14.33	59.11	+ 6 + 9	7.60	7.38	−10 + 1	57.09	10.93	−11 − 1	44.95	9.47	− 1 − 9
30	14.23	59.42	0 + 9				56.69	10.97	−10 − 5	44.60	9.33	+ 3 − 8
31	14.13	59.73	− 5 + 6				56.28	11.01	− 8 − 8	44.25	9.19	+ 7 − 5
32	14.02	60.04	− 8 + 3				55.87	11.04	− 4 − 9			

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
+87° 9′ 40″	20.191	+20.166	+87° 10′ 0″	20.230	+20.206	+87° 10′ 10″	20.250	+20.225
50	20.210	+20.186	10	20.250	+20.225	20	20.270	+20.245

$\alpha_{1929.0} = 7^h\ 7^m\ 52^s.41$ $\delta_{1929.0} = +87°\ 9'\ 46''.75$

Scheinbare Sternörter 1929

Obere Kulmination Greenwich

Nd) 51 Hev. Cephei $5^m.26$

Tag	Mai AR.	Mai Dekl.	Mai ☾ Glieder		Juni AR.	Juni Dekl.	Juni ☾ Glieder		Juli AR.	Juli Dekl.	Juli ☾ Glieder		August AR.	August Dekl.	August ☾ Glieder	
	$7^h 7^m$	$+87° 10'$	in $0^s.01$	in $0''.01$	$7^h 7^m$	$+87° 9'$	in $0^s.01$	in $0''.01$	$7^h 7^m$	$+87° 9'$	in $0^s.01$	in $0''.01$	$7^h 7^m$	$+87° 9'$	in $0^s.01$	in $0''.01$
1	$44^s.25$	$9''.19$	+ 7	− 5	$36^s.21$	$62''.58$	+ 3	+10	$34^s.66$	$53''.69$	−13	+ 9	$39^s.96$	$44''.24$	−13	− 7
2	43.91	9.04	+ 9	− 1	36.05	62.31	− 3	+11	34.72	53.37	−17	+ 6	40.24	43.95	− 5	−10
3	43.57	8.89	+ 9	+ 3	35.90	62.04	− 9	+11	34.79	53.06	−18	0	40.53	43.67	+ 3	−10
4	43.24	8.73	+ 6	+ 7	35.75	61.77	−14	+ 8	34.87	52.75	−15	− 5	40.82	43.39	+10	− 8
5	42.91	8.56	+ 2	+10	35.61	61.49	−17	+ 3	34.95	52.43	− 9	− 9	41.12	43.11	+15	− 4
6	42.59	8.40	− 4	+11	35.48	61.21	−16	− 2	35.04	52.12	− 1	−11	41.42	42.84	+17	+ 1
7	42.27	8.23	−10	+10	35.36	60.93	−12	− 7	35.15	51.81	+ 7	−10	41.73	42.56	+15	+ 5
8	41.96	8.05	−14	+ 6	35.25	60.65	− 5	−10	35.26	51.49	+14	− 7	42.05	42.29	+11	+ 8
9	41.65	7.87	−16	+ 1	35.14	60.37	+ 3	−11	*)35.37	51.18	+17	− 2	42.38	42.02	+ 5	+ 9
10	41.35	7.69	−14	− 4	35.04	60.08	+11	− 9	35.49	50.87	+17	+ 2	42.71	41.75	− 1	+ 8
11	41.05	7.50	− 8	− 9	34.95	59.79	+16	− 5	35.62	50.55	+14	+ 6	43.04	41.49	− 6	+ 5
12	40.76	7.30	− 1	−11	34.86	59.50	+18	− 1	35.76	50.24	+ 9	+ 9	43.38	41.23	− 9	+ 2
13	40.48	7.10	+ 7	−10	34.78	59.20	+17	+ 4	35.91	49.93	+ 3	+ 9	43.73	40.97	−10	− 2
14	40.20	6.89	+13	− 8	34.71	58.90	+12	+ 7	36.06	49.62	− 3	+ 7	44.08	40.71	− 8	− 6
15	39.92	6.68	+17	− 3	34.65	58.61	+ 7	+ 9	36.22	49.31	− 7	+ 4	44.43	40.46	− 5	− 9
16	39.65	6.47	+18	+ 1	34.59	58.31	+ 1	+ 8	36.38	49.00	− 9	0	44.79	40.21	− 1	−10
17	39.39	6.26	+15	+ 6	34.54	58.01	− 5	+ 6	36.55	48.69	−10	− 4	45.16	39.96	+ 3	− 9
18	39.13	6.04	+ 9	+ 8	34.50	57.71	− 9	+ 3	36.73	48.39	− 8	− 7	45.53	39.71	+ 7	− 7
19	38.88	5.82	+ 3	+ 9	34.47	57.41	−10	− 1	36.91	48.08	− 4	− 9	45.91	39.47	+10	− 4
20	38.64	5.59	− 3	+ 8	34.44	57.10	−10	− 5	37.10	47.77	0	− 9	46.30	39.23	+11	+ 1
21	38.40	5.36	− 7	+ 5	34.43	56.79	− 7	− 8	37.30	47.47	+ 4	− 8	46.69	38.99	+10	+ 5
22	38.17	5.12	−10	+ 2	34.42	56.49	− 3	− 9	37.51	47.17	+ 8	− 6	47.08	38.75	+ 6	+ 9
23	37.94	4.88	−11	− 2	34.41	56.18	+ 1	− 9	37.73	46.87	+10	− 2	47.48	38.52	0	+11
24	37.72	4.63	− 9	− 6	34.42	55.87	+ 5	− 8	37.95	46.57	+10	+ 2	47.88	38.29	− 7	+11
25	37.51	4.39	− 6	− 8	34.43	55.56	+ 8	− 4	38.18	46.27	+ 8	+ 7	48.29	38.07	−13	+ 9
26	37.31	4.14	− 2	− 9	34.45	55.25	+10	0	38.41	45.97	+ 3	+10	48.70	37.85	−17	+ 4
27	37.11	3.89	+ 2	− 9	34.48	54.94	+ 9	+ 4	38.65	45.68	− 4	+11	49.11	37.63	−17	− 1
28	36.92	3.64	+ 6	− 6	34.51	54.63	+ 5	+ 8	38.90	45.39	−10	+11	49.53	37.42	−15	− 6
29	36.73	3.38	+ 9	− 3	34.55	54.32	− 1	+11	39.15	45.10	−16	+ 7	49.96	37.21	− 8	− 9
30	36.55	3.12	+ 9	+ 2	34.60	54.00	− 7	+11	39.41	44.81	−18	+ 2	50.39	37.00	− 1	−11
31	36.38	2.85	+ 7	+ 6	34.66	53.69	−13	+ 9	39.68	44.52	−17	− 3	50.83	36.80	+ 7	− 9
32	36.21	2.58	+ 3	+10					39.96	44.24	−13	− 7	51.27	36.60	+13	− 6

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
+87° 9′ 30″	20.171	+20.146	+87° 9′ 50″	20.210	+20.186	+87° 10′ 0″	20.230	+20.206
40	20.191	+20.166	10 0	20.230	+20.206	10	20.250	+20.225

$\alpha_{1929.0} = 7^h\ 7^m\ 52^s.41$ $\delta_{1929.0} = +87°\ 9'\ 46''.75$

*) Tag der doppelten unteren Kulmination: Juli 9

Scheinbare Sternörter 1929

Obere Kulmination Greenwich

Nd) 51 Hev. Cephei $5^m.26$

Tag	September			Oktober			November			Dezember		
	AR.	Dekl.	☾ Glieder	AR.	Dekl.	☾ Glieder	AR.	Dekl.	☾ Glieder	AR.	Dekl.	☾ Glieder
	$7^h\ 7^m$	$+87°9'$	in 0.01^s $0.01''$	$7^h\ 8^m$	$+87°9'$	in 0.01^s $0.01''$	$7^h\ 8^m$	$+87°9'$	in 0.01^s $0.01''$	$7^h\ 8^m$	$+87°9'$	in 0.01^s $0.01''$
1	51.27	36.60	+13 − 6	5.97	32.43	+13 + 6	22.36	32.47	− 7 + 6	36.30	36.99	−10 − 4
2	51.71	36.40	+16 − 1	6.50	32.36	+ 8 + 9	22.88	32.55	−10 + 2	36.69	37.21	− 7 − 8
3	52.16	36.21	+15 + 4	7.02	32.30	+ 2 +10	23.39	32.63	−10 − 2	37.08	37.44	− 3 −10
4	52.61	36.02	+12 + 7	7.55	32.24	− 3 + 8	23.89	32.72	− 9 − 6	37.46	37.67	+ 1 −10
5	53.06	35.83	+ 6 + 9	8.08	32.18	− 8 + 5	24.40	32.82	− 6 − 8	37.83	37.90	+ 5 − 8
6	53.52	35.65	0 + 9	8.60	32.13	−10 + 1	24.90	32.92	− 2 −10	38.19	38.13	+ 9 − 5
7	53.98	35.47	− 5 + 7	9.13	32.08	−10 − 3	25.41	33.02	+ 3 − 9	38.55	38.38	+10 − 2
8	54.45	35.29	− 8 + 3	9.66	32.04	− 8 − 7	25.91	33.13	+ 7 − 7	38.91	38.63	+10 + 3
9	54.92	35.12	−10 − 1	10.20	32.00	− 4 − 9	26.41	33.25	+ 9 − 4	39.26	38.88	+ 7 + 7
10	55.39	34.96	− 9 − 5	10.73	31.96	0 −10	26.90	33.37	+11 0	39.60	39.13	+ 2 +10
11	55.87	34.80	− 7 − 8	11.27	31.93	+ 4 − 9	27.39	33.49	+ 9 + 5	39.94	39.39	− 4 +11
12	56.35	34.64	− 3 − 9	11.80	31.91	+ 8 − 6	27.87	33.62	+ 6 + 8	40.27	39.65	−11 +10
13	56.83	34.48	+ 2 − 9	12.33	31.89	+10 − 3	28.35	33.76	0 +11	40.59	39.91	−16 + 7
14	57.32	34.33	+ 6 − 8	12.86	31.88	+11 + 2	28.83	33.90	− 6 +11	40.90	40.17	−18 + 2
15	57.81	34.19	+ 9 − 5	13.40	31.87	+ 9 + 6	29.30	34.04	−12 + 9	41.20	40.44	−17 − 3
16	58.30	34.05	+11 − 1	13.93	31.87	+ 4 + 9	29.77	34.19	−16 + 5	41.50	40.71	−12 − 8
17	58.79	33.91	+11 + 3	14.46	31.87	− 1 +11	30.24	34.35	−17 0	41.79	40.99	− 5 −10
18	59.29	33.78	+ 8 + 8	15.00	31.87	− 8 +10	30.70	34.51	−15 − 5	42.08	41.27	+ 3 −11
19	59.79	33.65	+ 3 +10	15.54	31.88	−13 + 8	31.16	34.67	− 9 − 9	42.36	41.56	+11 − 9
20	60.29	33.52	− 4 +11	16.07	31.90	−16 + 3	31.62	34.84	− 1 −11	42.63	41.84	+16 − 4
21	60.80	33.40	−10 +10	16.60	31.92	−16 − 2	32.07	35.01	+ 7 −10	42.89	42.13	+18 + 1
22	61.31	33.29	−15 + 6	17.13	31.94	−12 − 7	32.51	35.19	+13 − 7	43.14	42.42	+16 + 5
23	61.82	33.17	−17 + 1	17.66	31.97	− 6 −10	32.95	35.37	+17 − 2	43.39	42.71	+11 + 9
24	62.33	33.06	−15 − 4	18.19	32.01	+ 2 −11	33.39	35.56	+17 + 3	43.62	43.01	+ 5 +10
25	62.84	32.96	−10 − 8	18.72	32.05	+ 9 − 9	33.82	35.75	+14 + 7	43.85	43.30	− 1 + 9
26	63.35	32.86	− 3 −11	19.24	32.09	+14 − 5	34.24	35.94	+ 8 + 9	44.07	43.60	− 6 + 6
27	63.87	32.77	+ 4 −10	19.76	32.14	+16 0	34.67	36.14	+ 1 +10	44.28	43.90	− 9 + 1
28	64.39	32.68	+11 − 7	20.29	32.20	+15 + 5	35.09	36.35	− 4 + 8	44.49	44.21	−10 − 3
29	64.92	32.59	+15 − 3	20.81	32.26	+11 + 8	35.50	36.56	− 9 + 4	44.68	44.51	− 8 − 7
30	65.44	32.51	+16 + 2	21.33	32.32	+ 5 + 9	35.90	36.77	−10 0	44.87	44.82	− 4 − 9
31	65.97	32.43	+13 + 6	21.85	32.39	− 2 + 9	36.30	36.99	−10 − 4	45.05	45.13	0 −10
32				22.36	32.47	− 7 + 6				45.22	45.44	+ 4 − 9

δ	sec δ	tg δ	δ	sec δ	tg δ
+87° 9' 30"	20.171	+20.146	+87° 9' 40"	20.191	+20.166
40	20.191	+20.166	50	20.210	+20.186

$\alpha_{1929.0} = 7^h\ 7^m\ 52^s.41$ $\delta_{1929.0} = +87°\ 9'\ 46''.75$

Scheinbare Sternörter 1929

Obere Kulmination Greenwich

Ne) 1 Hev. Draconis $4^m.58$

Tag	Januar			Februar			März			April		
	AR.	Dekl.	☾ Glieder	AR.	Dekl.	☾ Glieder	AR.	Dekl.	☾ Glieder	AR.	Dekl.	☾ Glieder
	$9^h 27^m$	+81° 38′	in 0.01ˢ 0.01″	$9^h 27^m$	+81° 38′	in 0.01ˢ 0.01″	$9^h 27^m$	+81° 38′	in 0.01ˢ 0.01″	$9^h 27^m$	+81° 38′	in 0.01ˢ 0.01″
1	12ˢ.62	26″.13	+6 − 1	15.73	33.66	0 + 7	16.09	42.45	−3 + 4	13.91	50.38	−3 − 6
2	12.76	26.31	+5 + 3	15.78	33.96	−2 + 6	16.06	42.75	−4 + 2	13.80	50.58	−2 − 8
3	12.90	26.50	+3 + 6	15.83	34.25	−4 + 3	16.02	43.05	−5 − 2	13.69	50.77	0 − 8
4	13.03	26.69	+1 + 7	15.88	34.55	−4 0	15.98	43.34	−4 − 5	13.59	50.95	+2 − 6
5	13.16	26.89	−1 + 7	15.92	34.85	−4 − 3	15.94	43.63	−3 − 7	13.48	51.13	+4 − 3
6	13.29	27.09	−3 + 5	15.97	35.14	−3 − 6	15.90	43.92	−1 − 8	13.37	51.31	+4 + 1
7	13.42	27.30	−4 + 2	16.01	35.44	−2 − 8	15.85	44.21	+1 − 8	13.26	51.48	+4 + 5
8	13.54	27.51	−5 − 1	16.04	35.75	0 − 8	15.80	44.49	+3 − 5	13.15	51.64	+2 + 9
9	13.66	27.72	−4 − 4	16.08	36.05	+2 − 7	15.75	44.77	+4 − 2	13.04	51.80	0 +11
10	13.78	27.94	−3 − 6	16.11	36.35	+4 − 4	15.70	45.05	+4 + 2	12.92	51.96	−2 +11
11	13.90	28.16	−1 − 8	16.14	36.66	+4 0	15.64	45.33	+4 + 7	12.80	52.11	−4 + 8
12	14.02	28.39	+1 − 8	16.16 / 16.18	36.97 / 37.27	+4 + 4 / +3 + 8	15.58	45.61	+2 +10	12.69	52.25	−5 + 4
13	14.13	28.62	+2 − 6	16.20	37.58	+1 +11	15.51	45.88	−1 +11	12.57	52.39	−5 − 1
14	14.24	28.86	+4 − 3	16.21	37.89	−2 +11	15.45	46.15	−3 +10	12.45	52.53	−4 − 6
15	14.34	29.10	+4 + 2	16.23	38.20	−4 + 9	15.38	46.42	−5 + 7	12.33	52.66	−1 −10
16	14.45	29.34	+3 + 6	16.24	38.50	−6 + 6	15.31	46.68	−6 + 2	12.21	52.78	+1 −11
17	14.55	29.59	+2 +10	16.24	38.81	−6 0	15.24	46.94	−5 − 3	12.09	52.90	+4 −10
18	14.65	29.84	−1 +12	16.25	39.11	−5 − 4	15.16	47.19	−3 − 7	11.97	53.02	+6 − 7
19	14.75	30.09	−3 +11	16.25	39.42	−2 − 8	15.09	47.44	−1 −10	11.84	53.13	+6 − 3
20	14.84	30.35	−5 + 8	16.25	39.73	+1 −10	15.01	47.69	+2 −11	11.72	53.23	+6 + 1
21	14.93	30.61	−6 + 4	16.24	40.03	+3 −10	14.93	47.94	+4 − 9	11.59	53.33	+4 + 5
22	15.02	30.88	−6 − 2	16.23	40.34	+5 − 7	14.85	48.18	+6 − 5	11.47	53.42	+2 + 7
23	15.10	31.15	−4 − 6	16.22	40.65	+6 − 4	14.76	48.42	+6 − 1	11.34	53.51	0 + 8
24	15.18	31.42	−1 −10	16.20	40.95	+6 + 1	14.67	48.66	+5 + 3	11.22	53.59	−2 + 6
25	15.26	31.69	+2 −11	16.19	41.25	+5 + 4	14.58	48.89	+3 + 6	11.09	53.66	−4 + 4
26	15.33	31.97	+4 − 9	16.17	41.55	+2 + 7	14.49	49.11	+1 + 8	10.96	53.73	−5 + 1
27	15.41	32.24	+6 − 6	16.15	41.85	0 + 7	14.40	49.34	−1 + 7	10.83	53.79	−5 − 2
28	15.48	32.52	+6 − 2	16.12	42.15	−2 + 6	14.31	49.56	−3 + 6	10.71	53.85	−4 − 5
29	15.54	32.80	+6 + 2	16.09	42.45	−3 + 4	14.21	49.77	−4 + 3	10.58	53.90	−2 − 7
30	15.61	33.08	+4 + 5				14.11	49.98	−5 0	10.45	53.95	0 − 8
31	15.67	33.37	+2 + 7				14.01	50.18	−4 − 4	10.32	53.99	+1 − 7
32	15.73	33.66	0 + 7				13.91	50.38	−3 − 6			

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
+81° 38′ 20″	6.877	+6.804	+81° 38′ 40″	6.882	+6.809	+81° 38′ 50″	6.884	+6.811
30	6.879	+6.806	50	6.884	+6.811	60	6.886	+6.813

$\alpha_{1929.0} = 9^h\ 27^m\ 6^s.56$ $\delta_{1929.0} = +81°\ 38'\ 32''.89$

Scheinbare Sternörter 1929

Obere Kulmination Greenwich

Ne) 1 Hev. Draconis $4^m.58$

Tag	Mai				Juni				Juli				August			
	AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder	
	$9^h 27^m$	$+81° 38'$	in $0.^s01$	in $0.''01$	$9^h 27^m$	$+81° 38'$	in $0.^s01$	in $0.''01$	$9^h 27^m$	$+81° 38'$	in $0.^s01$	in $0.''01$	$9^h 27^m$	$+81° 38'$	in $0.^s01$	in $0.''01$
1	$10.^s32$	$53.''99$	+1	−7	$6.^s52$	52.45	+3	+7	3.94	46.40	−3	+12	3.13	37.00	−6	−2
2	10.19	54.03	+3	−4	6.41	52.32	+1	+10	3.88	46.14	−5	+11	3.14	36.66	−4	−6
3	10.06	54.06	+4	0	6.30	52.18	−1	+12	3.83	45.87	−6	+7	3.15	36.32	−1	−10
4	9.93	54.08	+4	+4	6.20	52.03	−3	+11	3.77	45.60	−6	+1	3.16	35.99	+2	−10
5	9.80	54.10	+3	+8	6.09	51.88	−5	+9	3.72	45.33	−5	−4	3.17	35.65	+4	−9
6	9.67	54.11	+1	+11	5.98	51.73	−6	+4	3.67	45.05	−3	−9	3.19	35.31	+6	−5
7	9.54	54.12	−2	+12	5.88	51.57	−5	−2	3.62	44.77	0	−11	3.21	34.97	+6	−1
8	9.42	54.12	−4	+10	5.78	51.40	−4	−7	3.57	44.49	+3	−11	3.23	34.63	+5	+3
9	9.29	54.11	−5	+6	5.68	51.23	−1	−10	3.53	44.21	+5	−8	3.26	34.29	+4	+6
10	9.16	54.10	−6	+1	5.58	51.05	+2	−12	3.49	43.92	+7	−4	3.28	33.95	+1	+7
11	9.03	54.08	−5	−4	5.48	50.87	+4	−10	3.45	43.63	+6	0	3.31	33.60	−1	+6
12	8.90	54.06	−2	−9	5.39	50.69	+6	−7	3.41	43.33	+5	+4	3.34	33.26	−3	+4
13	8.77	54.03	+1	−11	5.30	50.50	+7	−3	3.38	43.03	+3	+6	*)3.38	32.92	−4	+1
14	8.65	54.00	+3	−11	5.21	50.31	+6	+2	3.35	42.73	0	+7	3.41	32.58	−4	−2
15	8.52	53.96	+5	−9	5.12	50.11	+4	+5	3.32	42.43	−2	+6	3.45	32.23	−4	−5
16	8.40	53.92	+6	−5	5.03	49.91	+2	+7	3.29	42.13	−3	+4	3.49	31.89	−3	−7
17	8.27	53.87	+6	−1	4.94	49.70	0	+7	3.26	41.83	−4	0	3.53	31.54	0	−9
18	8.15	53.81	+5	+4	4.86	49.49	−2	+5	3.23	41.52	−4	−3	3.57	31.20	+1	−8
19	8.03	53.75	+3	+6	4.78	49.28	−4	+3	3.21	41.21	−3	−6	3.62	30.86	+3	−7
20	7.91	53.68	+1	+8	4.70	49.06	−4	−1	3.19	40.89	−2	−8	3.67	30.51	+4	−3
21	7.79	53.61	−2	+7	4.62	48.84	−4	−4	3.17	40.57	0	−8	3.72	30.17	+4	+1
22	7.67	53.53	−3	+5	4.54	48.61	−3	−6	3.16	40.25	+2	−8	3.78	29.82	+4	+5
23	7.55	53.44	−4	+2	4.47	48.38	−2	−8	3.15	39.93	+3	−5	3.83	29.48	+2	+9
24	7.43	53.35	−5	−1	4.40	48.14	0	−8	3.14	39.61	+4	−1	3.89	29.14	0	+12
25	7.31	53.26	−4	−4	4.33	47.90	+2	−7	3.13	39.29	+4	+3	3.95	28.80	−3	+12
26	7.19	53.16	−3	−7	4.26	47.66	+3	−4	3.12	38.97	+3	+7	4.01	28.45	−5	+9
27	7.08	53.05	−1	−8	4.19	47.42	+4	0	3.11	38.64	+1	+11	4.07	28.11	−6	+5
28	6.96	52.94	+1	−7	4.12	47.17	+4	+5	3.11	38.32	−1	+12	4.14	27.77	−6	0
29	6.85	52.83	+2	−5	4.06	46.92	+2	+9	3.11	37.99	−4	+12	4.21	27.43	−5	−5
30	6.74	52.71	+4	−2	4.00	46.66	0	+12	3.11	37.66	−6	+8	4.28	27.09	−2	−8
31	6.63	52.58	+4	+2	3.94	46.40	−3	+12	3.12	37.33	−7	+4	4.35	26.75	0	−10
32	6.52	52.45	+3	+7					3.13	37.00	−6	−2	4.43	26.41	+3	−9

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
+81° 38′ 20″	6.877	+6.804	+81° 38′ 40″	6.882	+6.809	+81° 38′ 50″	6.884	+6.811
30	6.879	+6.806	50	6.884	+6.811	60	6.886	+6.813

$\alpha_{1929.0} = 9^h\ 27^m\ 6^s.56 \qquad \delta_{1929.0} = +81°\ 38'\ 32''.89$

*) Tag der doppelten unteren Kulmination: Aug. 13

Scheinbare Sternörter 1929

Obere Kulmination Greenwich

Ne) 1 Hev. Draconis $4^m.58$

Tag	September			Oktober			November			Dezember		
	AR.	Dekl.	☾ Glieder	AR.	Dekl.	☾ Glieder	AR.	Dekl.	☾ Glieder	AR.	Dekl.	☾ Glieder
	$9^h 27^m$	+81° 38′	in 0.01s 0.01″	$9^h 27^m$	+81° 38′	in 0.01s 0.01″	$9^h 27^m$	+81° 38′	in 0.01s 0.01″	$9^h 27^m$	+81° 38′	in 0.01s 0.01″
1	4.43	26.41	+3 −9	7.59	16.99	+6 +1	12.39	10.05	−1 +8	17.72	7.67	−4 0
2	4.51	26.07	+5 −6	7.73	16.71	+5 +4	12.56	9.89	−3 +6	17.90	7.67	−4 −4
3	4.59	25.73	+6 −2	7.86	16.43	+3 +7	12.73	9.74	−4 +2	18.07	7.68	−3 −7
4	4.67	25.40	+6 +2	8.00	16.16	0 +8	12.90	9.60	−4 −1	18.25	7.70	−2 −8
5	4.75	25.06	+4 +5	8.14	15.89	−2 +7	13.08	9.46	−4 −5	18.42	7.73	0 −9
6	4.83	24.73	+2 +7	8.28	15.63	−3 +4	13.25	9.32	−3 −7	18.60	7.76	+2 −8
7	4.92	24.40	0 +7	8.42	15.37	−4 +1	13.43	9.19	−1 −9	18.77	7.79	+3 −5
8	5.01	24.07	−2 +6	8.56	15.11	−4 −3	13.60	9.07	+1 −8	18.95	7.83	+4 −1
9	5.10	23.74	−4 +3	8.71	14.86	−3 −6	13.78	8.95	+2 −7	19.12	7.88	+4 +3
10	5.20	23.41	−4 −1	8.86	14.61	−2 −8	13.96	8.83	+4 −3	19.29	7.93	+3 +8
11	5.29	23.08	−4 −4	9.00	14.36	0 −9	14.14	8.72	+4 +1	19.46	7.99	+1 +11
12	5.39	22.76	−3 −7	9.15	14.11	+2 −8	14.31	8.62	+4 +5	19.63	8.06	−1 +12
13	5.49	22.43	−1 −8	9.30	13.87	+3 −6	14.49	8.52	+2 +9	19.80	8.13	−4 +11
14	5.59	22.11	0 −9	9.45	13.63	+4 −2	14.67	8.42	0 +11	19.97	8.20	−6 +8
15	5.70	21.79	+2 −7	9.60	13.40	+4 +2	14.85	8.33	−2 +12	20.13	8.28	−6 +4
16	5.80	21.48	+4 −5	9.75	13.17	+3 +6	15.03	8.25	−4 +10	20.30	8.37	−6 −2
17	5.91	21.16	+4 −1	9.91	12.94	+2 +10	15.21	8.17	−6 +6	20.47	8.46	−4 −7
18	6.02	20.84	+4 +4	10.07	12.72	0 +11	15.39	8.10	−6 +1	20.63	8.56	−1 −10
19	6.13	20.53	+3 +7	10.23	12.50	−3 +11	15.57	8.03	−5 −4	20.79	8.67	+2 −11
20	6.24	20.22	+1 +10	10.39	12.28	−5 +8	15.75	7.97	−3 −9	20.95	8.78	+5 −9
21	6.36	19.92	−1 +12	10.55	12.07	−6 +4	15.93	7.91	0 −11	21.11	8.89	+6 −6
22	6.47	19.61	−4 +10	10.71	11.87	−6 −1	16.11	7.86	+3 −11	21.27	9.01	+7 −1
23	6.59	19.31	−6 +7	10.87	11.66	−4 −6	16.29	7.82	+5 −8	21.43	9.14	+6 +3
24	6.71	19.01	−6 +2	11.03	11.46	−2 −10	16.47	7.78	+7 −4	21.58	9.27	+4 +6
25	6.83	18.71	−5 −3	11.20	11.27	+1 −11	16.65	7.75	+6 +1	21.73	9.40	+1 +7
26	6.95	18.42	−3 −7	11.36	11.08	+4 −9	16.83	7.72	+5 +5	21.88	9.54	−1 +7
27	7.08	18.13	−1 −10	11.53	10.90	+6 −6	17.01	7.70	+2 +7	22.03	9.69	−3 +4
28	7.21	17.84	+2 −10	11.70	10.72	+6 −2	17.19	7.68	−1 +8	22.18	9.84	−4 +1
29	7.33	17.55	+5 −8	11.87	10.54	+5 +3	17.36	7.67	−2 +6	22.32	10.00	−4 −2
30	7.46	17.27	+6 −4	12.04	10.37	+4 +6	17.54	7.67	−4 +4	22.46	10.16	−3 −6
31	7.59	16.99	+6 +1	12.21	10.21	+1 +8	17.72	7.67	−4 0	22.60	10.33	−2 −8
32				12.39	10.05	−1 +8				22.74	10.50	0 −9

δ	sec δ	tg δ	δ	sec δ	tg δ
+81° 38′ 0″	6.873	+6.799	+81° 38′ 20″	6.877	+6.804
10	6.875	+6.802	30	6.879	+6.806

$\alpha_{1929.0} = 9^h\ 27^m\ 6^s.56$ $\delta_{1929.0} = +81°\ 38'\ 32''.89$

Obere Kulmination Greenwich

Nf) 30 Hev. Camelopardalis $5^m.34$

Tag	Januar AR.	Januar Dekl.	Januar ☾ Glieder	Februar AR.	Februar Dekl.	Februar ☾ Glieder	März AR.	März Dekl.	März ☾ Glieder	April AR.	April Dekl.	April ☾ Glieder
	$10^h\,22^m$	$+82°\,55'$	in $0.^s01$ $0.''01$	$10^h\,22^m$	$+82°\,55'$	in $0.^s01$ $0.''01$	$10^h\,22^m$	$+82°\,55'$	in $0.^s01$ $0.''01$	$10^h\,22^m$	$+82°\,55'$	in $0.^s01$ $0.''01$
1	$41.^s09$	$6.''14$	+7 −4	$45.^s66$	$12.''11$	0 +7	$47.^s24$	$20.''64$	−3 +6	$45.^s76$	$29.''60$	−4 −4
2	41.28	6.25	+6 0	45.76	12.37	−2 +6	47.24	20.95	−5 +3	45.67	29.85	−3 −6
3	41.46	6.37	+4 +4	45.86	12.64	−4 +5	47.24	21.26	−5 0	45.57	30.09	−1 −7
4	41.63	6.50	+2 +6	45.96	12.91	−5 +2	47.23	21.57	−5 −3	45.47	30.33	+2 −7
5	41.81	6.63	0 +7	46.05	13.18	−5 −1	47.22	21.88	−4 −5	45.37	30.57	+4 −5
6	41.98	6.77	−2 +6	46.14	13.46	−5 −4	47.21	22.19	−2 −7	45.26	30.80	+5 −1
7	42.15	6.91	−4 +4	46.23	13.74	−3 −6	47.20	22.50	0 −7	45.15	31.02	+5 +3
8	42.32	7.06	−5 +1	46.31	14.02	−1 −7	47.18	22.80	+3 −6	45.04	31.24	+4 +7
9	42.49	7.22	−5 −2	46.39	14.30	+1 −7	47.16	23.11	+4 −3	44.93	31.46	+2 +10
10	42.66	7.38	−4 −5	46.47	14.58	+3 −5	47.13	23.41	+5 0	44.82	31.68	−1 +11
11	42.82	7.54	−2 −7	46.54	14.87	+5 −2	47.10	23.72	+5 +4	44.71	31.89	−4 +10
12	42.98	7.71	0 −7	46.61	15.16	+5 +2	47.07	24.02	+3 +8	44.59	32.09	−6 +6
13	43.14	7.88	+2 −6	46.67	15.46	+4 +6	47.03	24.32	+1 +11	44.47	32.29	−6 +1
14	43.30	8.06	+4 −4	46.73	15.75	+2 +10	46.99	24.62	−2 +11	44.35	32.49	−5 −4
15	43.45	8.25	+5 0	46.79	16.05	−1 +11	46.95	24.92	−5 +8	44.23	32.68	−3 −8
16	43.60	8.44	+5 +4	46.84	16.35	−4 +10	46.90	25.21	−6 +4	44.10	32.87	0 −11
17	43.75	8.64	+3 +8	46.89	16.65	−6 +7	46.85	25.50	−6 −1	43.98	33.05	+3 −11
18	43.90	8.84	+1 +11	46.94	16.96	−6 +3	46.80	25.79	−5 −5	43.85	33.23	+5 −9
19	44.05	9.05	−2 +12	46.99	17.26	−6 −2	46.74	26.08	−2 −9	43.72	33.40	+7 −5
20	44.19	9.26	−5 +10	47.03	17.56	−4 −7	46.68	26.37	+1 −11	43.59	33.57	+7 −1
21	44.33	9.47	−6 +6	47.07	17.87	−1 −10	46.62	26.66	+4 −10	43.46	33.73	+5 +3
22	44.47	9.69	−6 +1	47.10	18.17	+2 −10	46.56	26.94	+6 −7	43.32	33.89	+3 +6
23	44.60	9.91	−5 −4	47.13	18.48	+5 −9	46.49	27.22	+7 −3	43.18	34.04	+1 +7
24	44.73	10.14	−3 −8	47.16	18.79	+6 −6	46.42	27.50	+6 +1	43.05	34.19	−2 +7
25	44.85	10.37	+1 −11	47.18	19.10	+7 −2	46.35	27.78	+4 +4	42.91	34.33	−4 +5
26	44.97	10.61	+4 −11	{47.20 / 47.21	19.40 / 19.71	+6 +2 / +4 +5}	46.27	28.05	+2 +6	42.77	34.46	−5 +3
27	45.09	10.85	+6 −9	47.22	20.02	+1 +7	46.19	28.32	0 +7	42.63	34.59	−5 0
28	45.21	11.10	+7 −5	47.23	20.33	−1 +7	46.11	28.58	−3 +6	42.48	34.72	−5 −3
29	45.33	11.35	+6 −1	47.24	20.64	−3 +6	46.03	28.84	−5 +4	42.34	34.84	−3 −6
30	45.44	11.60	+5 +3				45.94	29.10	−5 +1	42.20	34.95	−1 −7
31	45.55	11.85	+3 +6				45.85	29.35	−5 −2	42.05	35.06	+1 −7
32	45.66	12.11	0 +7				45.76	29.60	−4 −4			

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
+82° 55′ 0″	8.109	+8.048	+82° 55′ 20″	8.116	+8.054	+82° 55′ 30″	8.119	+8.057
10	8.113	+8.051	30	8.119	+8.057	40	8.122	+8.060

$\alpha_{1929.0} = 10^h\,22^m\,34.^s91$ $\delta_{1929.0} = +82°\,55'\,16''.30$

Nf) 30 Hev. Camelopardalis $5^m.34$

Tag	Mai AR.	Mai Dekl.	Mai ☾ Glieder		Juni AR.	Juni Dekl.	Juni ☾ Glieder		Juli AR.	Juli Dekl.	Juli ☾ Glieder		August AR.	August Dekl.	August ☾ Glieder	
	$10^h\,22^m$	+82° 55′	in $0^s.01$	in $0''.01$	$10^h\,22^m$	+82° 55′	in $0^s.01$	in $0''.01$	$10^h\,22^m$	+82° 55′	in $0^s.01$	in $0''.01$	$10^h\,22^m$	+82° 55′	in $0^s.01$	in $0''.01$
1	42.05	35.06	+1	−7	37.39	35.63	+5	+5	33.51	31.18	−1	+13	31.24	22.54	−7	+1
2	41.91	35.17	+3	−5	37.24	35.56	+3	+9	33.41	30.96	−4	+12	31.20	22.21	−5	−4
3	41.76	35.27	+4	−2	37.09	35.48	+1	+12	33.31	30.73	−6	+9	31.16	21.88	−2	−8
4	41.61	35.36	+5	+2	36.95	35.40	−2	+12	33.21	30.50	−7	+4	31.13	21.55	+1	−10
5	41.46	35.45	+4	+6	36.81	35.31	−5	+10	33.11	30.27	−6	−2	31.10	21.22	+4	−10
6	41.31	35.53	+2	+10	36.66	35.21	−6	+6	33.01	30.03	−4	−7	31.08	20.88	+6	−8
7	41.16	35.61	0	+12	36.52	35.11	−6	+1	32.92	29.78	−1	−10	31.05	20.54	+7	−4
8	41.01	35.68	−3	+11	36.38	35.01	−5	−5	32.82	29.53	+2	−11	31.03	20.20	+7	0
9	40.86	35.74	−5	+8	36.24	34.90	−2	−9	32.73	29.28	+5	−10	31.01	19.86	+5	+4
10	40.71	35.80	−6	+3	36.10	34.78	+1	−12	32.64	29.03	+7	−7	30.99	19.52	+2	+6
11	40.56	35.85	−6	−2	35.97	34.66	+4	−12	32.55	28.77	+7	−3	30.98	19.17	0	+6
12	40.41	35.90	−4	−7	35.83	34.54	+6	−9	32.47	28.50	+6	+1	30.97	18.82	−2	+5
13	40.26	35.94	−1	−10	35.69	34.41	+7	−5	32.39	28.23	+4	+5	30.96	18.47	−4	+3
14	40.11	35.98	+2	−12	35.56	34.27	+7	−1	32.31	27.96	+1	+6	30.95	18.12	−5	0
15	39.95	36.01	+4	−11	35.43	34.13	+5	+3	32.23	27.69	−1	+6	30.95	17.77	−5	−3
16	39.80	36.03	+6	−7	35.30	33.98	+3	+6	32.16	27.41	−3	+5	30.95	17.41	−4	−6
17	39.64	36.05	+7	−3	35.17	33.83	0	+7	32.08	27.13	−5	+2	30.95	17.06	−2	−8
18	39.49	36.06	+6	+1	35.04	33.67	−2	+6	32.01	26.84	−5	−1	30.95	16.71	0	−8
19	39.34	36.06	+4	+5	34.92	33.51	−4	+4	31.94	26.55	−5	−4	30.96	16.35	+2	−7
20	39.19	36.06	+2	+7	34.79	33.34	−5	+1	31.87	26.26	−3	−6	30.97	15.99	+4	−5
21	39.03	36.06	−1	+7	34.66	33.17	−5	−2	31.80	25.97	−1	−8	30.98	15.63	+5	−1
22	38.88	36.05	−3	+6	34.54	32.99	−4	−5	31.74	25.67	+1	−8	30.99	15.27	+5	+3
23	38.73	36.03	−5	+4	34.42	32.81	−3	−7	31.68	25.37	+3	−6	31.01	14.91	+4	+8
24	38.58	36.01	−5	+1	34.30	32.62	−1	−8	31.62	25.07	+4	−3	31.03	14.54	+2	+11
25	38.43	35.98	−5	−2	34.18	32.43	+1	−7	31.56	24.76	+5	+1	31.05	14.18	−1	+12
26	38.28	35.95	−4	−5	34.07	32.23	+3	−5	31.51	24.45	+4	+6	31.07	13.82	−4	+11
27	38.13	35.91	−2	−7	33.95	32.03	+5	−1	31.46	24.14	+3	+10	*)31.10	13.46	−6	+8
28	37.98	35.87	0	−7	33.84	31.82	+5	+3	31.41	23.82	0	+12	31.13	13.09	−7	+3
29	37.83	35.82	+2	−6	33.73	31.61	+4	+8	31.36	23.50	−3	+12	31.16	12.73	−6	−2
30	37.68	35.76	+4	−3	33.62	31.40	+2	+11	31.32	23.18	−5	+10	31.19	12.36	−4	−7
31	37.54	35.70	+5	+1	33.51	31.18	−1	+13	31.28	22.86	−7	+6	31.23	12.00	−1	−9
32	37.39	35.63	+5	+5					31.24	22.54	−7	+1	31.27	11.63	+2	−10

δ	sec δ	tg δ	δ	sec δ	tg δ
+82° 55′ 10″	8.113	+8.051	+82° 55′ 30″	8.119	+8.057
20	8.116	+8.054	40	8.122	+8.060

$\alpha_{1929.0} = 10^h\ 22^m\ 34^s.91$ $\delta_{1929.0} = +82°\ 55'\ 16''.30$

*) Tag der doppelten unteren Kulmination: Aug. 27

Scheinbare Sternörter 1929

Obere Kulmination Greenwich

Nf) 30 Hev. Camelopardalis $5^{m}.34$

Tag	September AR.	September Dekl.	September ☾ Glieder	Oktober AR.	Oktober Dekl.	Oktober ☾ Glieder	November AR.	November Dekl.	November ☾ Glieder	Dezember AR.	Dezember Dekl.	Dezember ☾ Glieder
	$10^{h}\,22^{m}$	+82° 55′	in 0.01^s 0.01″	$10^{h}\,22^{m}$	+82° 54′	in 0.01^s 0.01″	$10^{h}\,22^{m}$	+82° 54′	in 0.01^s 0.01″	$10^{h}\,22^{m}$	+82° 54′	in 0.01^s 0.01″
1	31.27	11.63	+2 −10	33.62	60.91	+7 −2	38.20	51.84	0 +7	44.03	46.97	−5 +2
2	31.31	11.27	+5 −8	33.74	60.57	+6 +2	38.38	51.61	−2 +6	44.23	46.89	−5 −2
3	31.35	10.90	+7 −5	33.86	60.24	+4 +5	38.56	51.38	−4 +4	44.44	46.82	−4 −5
4	31.40	10.53	+7 −1	33.98	59.91	+2 +7	38.74	51.15	−5 +1	44.64	46.76	−3 −7
5	31.45	10.17	+5 +3	34.11	59.58	−1 +7	38.92	50.93	−5 −3	44.85	46.70	−1 −8
6	31.50	9.80	+3 +6	34.23	59.25	−3 +5	39.11	50.71	−4 −5	45.05	46.65	+1 −8
7	31.56	9.43	+1 +7	34.36	58.92	−5 +2	39.29	50.50	−2 −7	45.26	46.60	+3 −6
8	31.62	9.07	−2 +6	34.49	58.60	−5 −1	39.47	50.29	0 −8	45.46	46.56	+4 −3
9	31.68	8.70	−4 +4	34.62	58.28	−5 −4	39.66	50.09	+2 −7	45.67	46.52	+5 +2
10	31.74	8.34	−5 +1	34.75	57.97	−3 −6	39.85	49.89	+4 −5	45.87	46.49	+4 +6
11	31.80	7.97	−5 −2	34.89	57.65	−1 −8	40.04	49.70	+5 −1	46.07	46.47	+2 +10
12	31.87	7.61	−4 −5	35.03	57.34	+1 −8	40.23	49.51	+5 +3	46.28	46.45	0 +12
13	31.94	7.25	−3 −7	35.17	57.03	+3 −7	40.42	49.33	+4 +7	46.48	46.44	−3 +12
14	32.01	6.88	−1 −8	35.31	56.73	+4 −4	40.62	49.15	+2 +10	46.68	46.44	−5 +10
15	32.09	6.52	+2 −8	35.46	56.43	+5 0	40.81	48.98	−1 +12	46.89	46.44	−7 +6
16	32.16	6.16	+4 −6	35.60	56.13	+5 +4	41.00	48.81	−4 +11	47.09	46.45	−7 +1
17	32.24	5.80	+5 −3	35.75	55.83	+3 +8	41.20	48.65	−6 +8	47.29	46.46	−5 −5
18	32.32	5.44	+5 +1	35.90	55.54	+1 +11	41.40	48.49	−7 +3	47.49	46.48	−2 −9
19	32.41	5.09	+5 +6	36.05	55.25	−2 +11	41.60	48.34	−6 −2	47.69	46.51	+1 −11
20	32.50	4.73	+3 +9	36.21	54.97	−4 +10	41.80	48.19	−4 −7	47.89	46.54	+4 −11
21	32.59	4.37	0 +11	36.36	54.69	−6 +6	42.00	48.05	−1 −10	48.09	46.58	+6 −8
22	32.68	4.02	−3 +11	36.52	54.41	−6 +1	42.20	47.92	+2 −11	48.29	46.63	+7 −4
23	32.77	3.67	−5 +9	36.68	54.14	−5 −4	42.40	47.79	+5 −10	48.48	46.68	+7 0
24	32.87	3.32	−7 +4	36.84	53.87	−3 −8	42.61	47.67	+7 −6	48.67	46.74	+5 +4
25	32.97	2.97	−7 −1	37.01	53.60	0 −10	42.81	47.55	+7 −2	48.87	46.80	+2 +6
26	33.07	2.62	−5 −5	37.17	53.34	+3 −10	43.01	47.44	+6 +3	49.06	46.87	0 +7
27	33.18	2.27	−2 −9	37.34	53.08	+6 −8	43.22	47.33	+4 +6	49.25	46.94	−3 +5
28	33.29	1.93	+1 −10	37.51	52.82	+7 −4	43.42	47.23	+1 +7	49.44	47.02	−4 +3
29	33.40	1.59	+4 −9	37.68	52.57	+6 0	43.62	47.14	−2 +7	49.63	47.11	−5 −1
30	33.51	1.25	+6 −6	37.85	52.32	+5 +4	43.82	47.05	−4 +5	49.82	47.20	−5 −4
31	33.62	0.91	+7 −2	38.03	52.08	+3 +7	44.03	46.97	−5 +2	50.00	47.30	−3 −7
32				38.20	51.84	0 +7				50.18	47.41	−2 −8

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
+82° 54′ 40″	8.103	+8.041	+82° 55′ 0″	8.109	+8.048	+82° 55′ 10″	8.113	+8.051
50	8.106	+8.044	10	8.113	+8.051	20	8.116	+8.054

$\alpha_{1929.0} = 10^{h}\ 22^{m}\ 34^{s}.91$ $\delta_{1929.0} = +82°\ 55'\ 16''.30$

Scheinbare Sternörter 1929

Obere Kulmination Greenwich

Ng) ε Ursae minoris $4^m.40$

Tag	Januar AR.	Januar Dekl.	Januar ☾ Glieder	Februar AR.	Februar Dekl.	Februar ☾ Glieder
	$16^h 53^m$	+82° 9′	in 0.01^s $0.01''$	$16^h 53^m$	+82° 8′	in 0.01^s $0.01''$
1	4.17	12.77	−1 −10	7.17	63.68	+2 − 2
2	4.23	12.42	0 −10	7.31	63.46	+2 + 2
3	4.29	12.07	+2 − 8	7.45	63.25	+1 + 5
4	4.35	11.73	+2 − 5	7.58	63.04	0 + 8
5	4.42	11.39	+2 0	7.72	62.84	0 + 9
6	4.49	11.05	+2 + 3	7.86	62.65	−1 + 9
7	4.56	10.72	+1 + 7	8.00	62.46	−2 + 7
8	4.63	10.39	0 + 9	8.14	62.27	−2 + 3
9	4.71	10.06	−1 + 9	8.28	62.09	−2 − 1
10	4.79	9.74	−2 + 8	8.43	61.92	−1 − 5
11	4.87	9.42	−2 + 6	8.58	61.75	0 − 8
12	4.95	9.10	−2 + 2	8.73	61.60	+1 −10
13	5.04	8.79	−2 − 2	8.88	61.45	+3 − 9
14	5.13	8.48	−1 − 6	9.03	61.30	+4 − 6
15	5.23	8.18	+1 − 9	9.18	61.16	+4 − 2
16	5.32	7.88	+2 − 9	9.33	61.03	+3 + 3
17	5.42	7.58	+3 − 8	9.49	60.90	+2 + 8
18	5.52	7.29	+4 − 4	9.65	60.77	0 +10
19	5.62	7.00	+4 + 1	9.80	60.65	−1 +10
20	5.73	6.72	+3 + 5	9.96	60.53	−3 + 8
21	5.84	6.44	+2 +10	10.12	60.43	−3 + 4
22	5.95	6.16	0 +11	10.28	60.33	−3 − 1
23	6.06	5.89	−2 +10	10.44	60.24	−3 − 6
24	6.18	5.63	−3 + 6	10.60	60.16	−2 − 9
25	6.30	5.37	−4 + 2	10.76	60.08	0 −11
26	6.42	5.11	−4 − 3	10.92	60.01	+1 −10
27	6.54	4.86	−3 − 7	11.08	59.94	+2 − 7
28	6.66	4.62	−1 −10	11.24	59.88	+2 − 3
29	6.78	4.38	0 −10	11.40	59.83	+2 + 1
30	6.91	4.14	+1 − 9			
31	7.04	3.91	+2 − 6			
32	7.17	3.68	+2 − 2			

Tag	März AR.	März Dekl.	März ☾ Glieder	April AR.	April Dekl.	April ☾ Glieder
	$16^h 53^m$	+82° 8′	in 0.01^s $0.01''$	$16^h 53^m$	+82° 9′	in 0.01^s $0.01''$
1	11.40	59.83	+2 + 1	16.21	1.49	−1 + 9
2	11.56	59.79	+2 + 4	16.35	1.64	−2 + 8
3	11.72	59.75	+1 + 7	16.49	1.80	−2 + 6
4	11.88	59.72	0 + 9	16.62	1.96	−2 + 2
5	12.05	59.70	−1 + 9	16.76	2.13	−2 − 2
6	12.21	59.68	−2 + 8	16.89	2.30	−1 − 5
7	12.37	59.67	−2 + 5	17.02	2.48	0 − 9
8	12.53	59.66	−2 + 1	17.15	2.66	+1 −10
9	12.69	59.66	−2 − 3	17.27	2.85	+3 − 9
10	12.85	59.67	−1 − 7	17.40	3.04	+4 − 6
11	13.01	59.69	0 − 9	17.52	3.24	+4 − 1
12	13.17	59.71	+2 −10	17.64	3.44	+3 + 4
13	13.33	59.74	+3 − 8	17.76	3.64	+2 + 8
14	13.49	59.78	+4 − 4	17.87	3.85	0 +10
15	13.65	59.82	+3 + 1	17.99	4.07	−2 +10
16	13.81	59.87	+3 + 6	18.10	4.29	−3 + 7
17	13.97	59.93	+1 + 9	18.21	4.51	−4 + 3
18	14.13	59.99	−1 +11	18.32	4.74	−4 − 2
19	14.28	60.06	−2 + 9	18.42	4.98	−3 − 7
20	14.44	60.13	−3 + 6	18.53	5.22	−1 −10
21	14.59	60.21	−4 + 1	18.63	5.46	0 −11
22	14.74	60.29	−3 − 4	18.73	5.71	+1 − 9
23	14.90	60.38	−2 − 8	18.83	5.96	+2 − 7
24	15.05	60.48	−1 −10	18.92	6.21	+2 − 3
25	15.20	60.59	+1 −10	19.01	6.47	+2 + 2
26	15.35	60.70	+2 − 8	19.10	6.73	+2 + 5
27	15.50	60.82	+2 − 5	19.19	6.99	+1 + 8
28	15.64	60.94	+2 − 1	19.27	7.26	0 + 9
29	15.79	61.07	+2 + 3	19.35	7.53	−1 + 9
30	15.93	61.20	+1 + 6	19.43	7.80	−2 + 7
31	16.07	61.34	0 + 9	19.51	8.07	−3 + 4
32	16.21	61.49	−1 + 9			

δ	sec δ	tg δ	δ	sec δ	tg δ
+82° 8′ 50″	7.319	+7.250	+82° 9′ 10″	7.324	+7.256
9 0	7.322	+7.253	20	7.327	+7.258

$\alpha_{1929.0} = 16^h\ 53^m\ 10^s.77$ $\delta_{1929.0} = +82°\ 9'\ 24''.55$

Scheinbare Sternörter 1929

Obere Kulmination Greenwich

Ng) ε Ursae minoris $4^m.40$

Tag	Mai			Juni			Juli			August		
	AR.	Dekl.	☾ Glieder	AR.	Dekl.	☾ Glieder	AR.	Dekl.	☾ Glieder	AR.	Dekl.	☾ Glieder
	$16^h 53^m$	+82° 9′	in $0^s.01$ | $0''.01$	$16^h 53^m$	+82° 9′	in $0^s.01$ | $0''.01$	$16^h 53^m$	+82° 9′	in $0^s.01$ | $0''.01$	$16^h 53^m$	+82° 9′	in $0^s.01$ | $0''.01$
1	$19^s.51$	$8''.07$	−3 + 4	$20^s.57$	$17''.49$	+1 − 9	$18^s.97$	$26''.61$	+4 − 1	$15^s.17$	$33''.01$	−1 +11
2	19.59	8.35	−2 0	20.56	17.80	+2 − 9	18.88	26.87	+4 + 3	15.02	33.15	−2 +10
3	19.66	8.63	−1 − 4	20.55	18.12	+3 − 8	18.78	27.13	+2 + 8	14.87	33.28	−3 + 6
4	19.73	8.92	0 − 7	20.53	18.43	+4 − 4	18.69	27.38	+1 +11	14.72	33.42	−3 + 1
5	19.79	9.20	+1 − 9	{20.51 {20.49	18.74 19.05	+4 + 1} +3 + 5}	18.59	27.63	−1 +11	14.56	33.55	−3 − 4
6	19.86	9.49	+2 − 9	20.46	19.36	+2 + 9	18.49	27.88	−3 + 8	14.40	33.67	−2 − 8
7	19.92	9.78	+3 − 7	20.43	19.67	0 +10	18.39	28.12	−4 + 4	14.25	33.79	−1 −11
8	19.98	10.07	+4 − 3	20.40	19.98	−2 +10	18.29	28.36	−4 − 1	14.09	33.90	0 −11
9	20.04	10.37	+4 + 2	20.37	20.29	−3 + 6	18.18	28.60	−3 − 6	13.93	34.01	+1 − 9
10	20.09	10.66	+2 + 7	20.33	20.60	−4 + 2	18.07	28.83	−2 −10	13.77	34.11	+2 − 5
11	20.14	10.96	+1 +10	20.29	20.91	−4 − 3	17.96	29.06	0 −11	13.61	34.21	+2 − 1
12	20.19	11.26	−1 +10	20.25	21.21	−3 − 8	17.84	29.29	+1 −10	13.44	34.31	+2 + 3
13	20.24	11.56	−3 + 8	20.21	21.51	−1 −10	17.73	29.51	+2 − 7	13.27	34.40	+1 + 7
14	20.28	11.87	−4 + 5	20.16	21.81	0 −11	17.61	29.73	+2 − 3	13.11	34.48	0 + 9
15	20.32	12.17	−4 0	20.11	22.11	+1 − 9	17.49	29.95	+2 + 1	12.94	34.56	−1 + 9
16	20.35	12.48	−3 − 5	20.06	22.41	+2 − 6	17.37	30.16	+1 + 5	12.77	34.64	−2 + 8
17	20.39	12.79	−2 − 9	20.01	22.71	+2 − 2	17.24	30.37	0 + 8	12.60	34.71	−3 + 5
18	20.42	13.10	−1 −11	19.95	23.00	+2 + 2	17.12	30.58	−1 + 9	12.43	34.77	−3 + 2
19	20.45	13.41	+1 −10	19.89	23.29	+1 + 6	16.99	30.78	−2 + 9	12.26	34.83	−2 − 2
20	20.48	13.72	+2 − 8	19.83	23.58	0 + 8	16.86	30.98	−2 + 7	12.08	34.89	−1 − 6
21	20.50	14.03	+2 − 4	19.76	23.87	−1 + 9	16.73	31.17	−3 + 5	11.91	34.94	0 − 9
22	20.52	14.35	+2 0	19.70	24.16	−2 + 9	16.60	31.36	−3 0	11.74	34.99	+2 −10
23	20.54	14.66	+2 + 4	19.63	24.44	−2 + 6	16.46	31.54	−2 − 4	11.56	35.03	+3 − 8
24	20.55	14.98	+1 + 7	19.55	24.72	−3 + 3	16.33	31.72	−1 − 7	11.39	35.06	+4 − 5
25	20.56	15.29	0 + 9	19.48	25.00	−2 − 1	16.19	31.90	+1 − 9	11.22	35.09	+4 0
26	20.57	15.60	−1 + 9	19.40	25.27	−1 − 5	16.05	32.07	+2 − 9	11.04	35.12	+4 + 4
27	20.58	15.92	−2 + 8	19.32	25.54	0 − 8	15.91	32.24	+3 − 7	10.87	35.14	+2 + 9
28	20.58	16.23	−2 + 5	19.24	25.81	+1 − 9	15.77	32.40	+4 − 3	10.69	35.16	0 +11
29	20.58	16.54	−2 + 2	19.15	26.08	+3 − 9	15.62	32.56	+4 + 1	10.51	35.17	−1 +11
30	20.58	16.86	−2 − 2	19.06	26.35	+4 − 6	15.47	32.71	+3 + 6	10.34	35.18	−3 + 8
31	20.58	17.17	−1 − 6	18.97	26.61	+4 − 1	15.32	32.86	+1 +10	10.16	35.18	−3 + 3
32	20.57	17.49	+1 − 9				15.17	33.01	−1 +11	9.98	35.17	−3 − 2

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
+82° 9′ 0″	7.322	+7.253	+82° 9′ 20″	7.327	+7.258	+82° 9′ 30″	7.329	+7.261
10	7.324	+7.256	30	7.329	+7.261	40	7.332	+7.264

$\alpha_{1929.0} = 16^h\ 53^m\ 10^s.77$ $\delta_{1929.0} = +82°\ 9'\ 24''.55$

Scheinbare Sternörter 1929

Obere Kulmination Greenwich

Ng) ε Ursae minoris $4^m.40$

Tag	September AR.	September Dekl.	September ☾ Glieder		Oktober AR.	Oktober Dekl.	Oktober ☾ Glieder		November AR.	November Dekl.	November ☾ Glieder		Dezember AR.	Dezember Dekl.	Dezember ☾ Glieder	
		+	in			+	in			+	in			+	in	
	$16^h 53^m$	82° 9′	$0^s.01$	$0''.01$	$16^h 53^m$	82° 9′	$0^s.01$	$0''.01$	$16^h 52^m$	82° 9′	$0^s.01$	$0''.01$	$16^h 52^m$	82° 9′	$0^s.01$	$0''.01$
1	$9^s.98$	$35''.17$	−3	−2	$4^s.67$	$32''.71$	0	−11	$60^s.08$	$25''.68$	+2	−1	$57^s.58$	$15''.71$	0	+8
2	9.80	35.16	−2	−7	4.51	32.55	+1	−10	59.96	25.39	+2	+3	57.54	15.35	−1	+9
3	9.63	35.15	−1	−10	4.34	32.39	+2	−8	59.84	25.09	+1	+7	57.50	14.99	−2	+9
4	9.45	35.13	0	−11	4.17	32.22	+2	−4	59.73	24.79	0	+9	*)57.47	14.63	−2	+7
5	9.27	35.10	+1	−10	4.01	32.04	+2	+1	59.61	24.49	−1	+9	57.44	14.26	−3	+4
6	9.09	35.07	+2	−6	3.84	31.86	+1	+4	59.50	24.19	−2	+8	57.41	13.90	−2	0
7	8.91	35.04	+2	−2	3.68	31.68	+1	+8	59.39	23.88	−3	+6	57.39	13.53	−2	−4
8	8.73	35.00	+2	+2	3.52	31.49	0	+9	59.28	23.57	−3	+2	57.37	13.16	0	−7
9	8.55	34.95	+1	+6	3.36	31.30	−1	+9	59.18	23.26	−2	−2	57.35	12.79	+1	−9
10	8.37	34.90	0	+8	3.20	31.10	−2	+7	59.08	22.94	−1	−6	57.34	12.42	+2	−9
11	8.19	34.85	−1	+9	3.04	30.90	−3	+5	58.98	22.62	0	−8	57.33	12.06	+4	−7
12	8.01	34.79	−2	+9	2.89	30.69	−3	+1	58.89	22.30	+1	−9	57.32	11.69	+4	−3
13	7.83	34.72	−3	+6	2.73	30.48	−2	−3	58.79	21.97	+3	−9	57.31	11.32	+4	+2
14	7.65	34.65	−3	+3	2.57	30.27	−1	−7	58.70	21.64	+4	−6	57.31	10.95	+3	+6
15	7.48	34.58	−2	−1	2.42	30.05	0	−9	58.61	21.31	+4	−2	57.31	10.59	+2	+10
16	7.30	34.50	−2	−5	2.27	29.83	+2	−10	58.53	20.98	+4	+3	57.31	10.22	0	+11
17	7.12	34.41	0	−8	2.12	29.60	+3	−8	58.45	20.64	+2	+8	57.32	9.85	−2	+10
18	6.94	34.32	+1	−10	1.97	29.37	+4	−4	58.37	20.30	+1	+10	57.33	9.48	−3	+6
19	6.77	34.23	+2	−9	1.82	29.13	+4	0	58.29	19.96	−1	+11	57.34	9.12	−4	+2
20	6.59	34.13	+3	−7	1.68	28.89	+3	+5	58.21	19.62	−3	+8	57.36	8.75	−3	−4
21	6.41	34.02	+4	−3	1.53	28.64	+2	+9	58.14	19.27	−4	+4	57.38	8.39	−2	−9
22	6.24	33.91	+4	+2	1.39	28.39	0	+11	58.07	18.93	−4	−1	57.40	8.02	−1	−11
23	6.06	33.80	+3	+7	1.25	28.14	−2	+10	58.00	18.58	−3	−6	57.43	7.66	+1	−11
24	5.88	33.68	+1	+10	1.11	27.88	−3	+7	57.94	18.23	−2	−10	57.46	7.30	+2	−9
25	5.71	33.55	−1	+11	0.98	27.62	−4	+2	57.88	17.88	0	−11	57.49	6.94	+2	−5
26	5.53	33.42	−2	+9	0.84	27.35	−3	−3	57.82	17.52	+1	−10	57.52	6.58	+2	0
27	5.36	33.29	−3	+5	0.71	27.08	−2	−8	57.77	17.16	+2	−7	57.56	6.22	+2	+4
28	5.19	33.15	−3	0	0.58	26.81	−1	−10	57.72	16.80	+2	−3	57.60	5.87	+1	+7
29	5.02	33.01	−3	−5	0.45	26.53	0	−11	57.67	16.44	+2	+1	57.64	5.52	0	+9
30	4.84	32.86	−2	−9	0.33	26.25	+2	−9	57.62	16.08	+1	+5	57.69	5.17	−2	+9
31	4.67	32.71	0	−11	0.20	25.97	+2	−5	57.58	15.71	0	+8	57.74	4.82	−2	+8
32					0.08	25.68	+2	−1					57.79	4.47	−3	+5

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
+82° 9′ 0″	7.322	+7.253	+82° 9′ 20″	7.327	+7.258	+82° 9′ 30″	7.329	+7.261
10	7.324	+7.256	30	7.329	+7.261	40	7.332	+7.264

$\alpha_{1929.0} = 16^h\ 53^m\ 10^s.77$ $\delta_{1929.0} = +82°\ 9'\ 24''.55$

*) **Tag der doppelten unteren Kulmination: Dez. 4**

Scheinbare Sternörter 1929

Obere Kulmination Greenwich

Nh) δ Ursae minoris $4^{m}.44$

Tag	Januar AR.	Januar Dekl.	Januar ☾ Glieder		Februar AR.	Februar Dekl.	Februar ☾ Glieder	
	$17^{h}\ 54^{m}$	$+86^{\circ}\ 36'$	in 0.01^{s}	$0.01''$	$17^{h}\ 54^{m}$	$+86^{\circ}\ 36'$	in 0.01^{s}	$0.01''$
1	50.27	40.80	−6	−9	53.96	30.84	+6	−4
2	50.29	40.45	−2	−10	54.19	30.57	+7	0
3	50.31	40.10	+1	−9	54.42	30.30	+6	+4
4	50.34	39.75	+4	−6	54.65	30.03	+4	+7
5	50.38	39.40	+6	−2	54.89	29.77	+2	+9
6	50.42	39.05	+7	+2	55.14	29.52	−1	+9
7	50.47	38.71	+6	+5	55.39	29.27	−4	+8
8	50.52	38.37	+4	+8	55.64	29.02	−6	+5
9	50.58	38.03	+1	+9	55.90	28.78	−7	+1
10	50.65	37.69	−2	+9	56.17	28.55	−6	−3
11	50.73	37.35	−5	+7	56.45	28.32	−4	−7
12	50.82	37.01	−6	+4	56.73	28.09	0	−10
13	50.91	36.67	−7	0	57.01	27.87	+4	−10
14	51.01	36.34	−5	−5	57.29	27.65	+8	−9
15	51.12	36.01	−2	−9	57.58	27.44	+10	−4
16	51.23	35.69	+2	−10	57.87	27.24	+11	+1
17	51.35	35.36	+6	−10	58.17	27.04	+9	+5
18	51.48	35.04	+9	−7	58.47	26.85	+5	+9
19	51.61	34.72	+11	−2	58.77	26.66	0	+11
20	51.75	34.40	+11	+3	59.08	26.48	−4	+9
21	51.90	34.09	+8	+7	59.40	26.30	−8	+6
22	52.06	33.77	+3	+10	59.72	26.13	−10	+2
23	52.22	33.46	−2	+10	60.04	25.97	−10	−3
24	52.39	33.15	−7	+8	60.37	25.81	−8	−7
25	52.57	32.85	−10	+4	60.69	25.65	−5	−10
26	52.75	32.55	−11	0	61.02	25.50	−1	−10
27	52.93	32.26	−10	−5	61.35	25.36	+3	−8
28	53.12	31.97	−7	−8	61.68	25.23	+5	−5
29	53.32	31.68	−4	−10	62.01	25.10	+6	−1
30	53.53	31.40	0	−9				
31	53.74	31.12	+3	−7				
32	53.96	30.84	+6	−4				

Tag	März AR.	März Dekl.	März ☾ Glieder		April AR.	April Dekl.	April ☾ Glieder	
	$17^{h}\ 55^{m}$	$+86^{\circ}\ 36'$	in 0.01^{s}	$0.01''$	$17^{h}\ 55^{m}$	$+86^{\circ}\ 36'$	in 0.01^{s}	$0.01''$
1	2.01	25.10	+6	−1	12.96	24.24	+1	+9
2	2.35	24.98	+6	+3	13.31	24.31	−1	+9
3	2.69	24.87	+5	+6	13.65	24.39	−4	+7
4	3.04	24.76	+3	+9	13.99	24.48	−4	+4
5	3.39	24.66	0	+9	14.33	24.57	−6	0
6	3.73	24.56	−3	+9	14.66	24.67	−5	−4
7	4.08	24.47	−5	+6	15.00	24.77	−3	−8
8	4.43	24.38	−7	+3	15.33	24.88	0	−10
9	4.78	24.30	−7	−2	15.65	24.99	+5	−10
10	5.13	24.23	−5	−6	15.98	25.11	+8	−8
11	5.48	24.16	−2	−9	16.30	25.24	+10	−4
12	5.84	24.10	+2	−11	16.62	25.37	+10	+1
13	6.20	24.04	+6	−9	16.94	25.51	+7	+6
14	6.56	23.99	+9	−6	17.26	25.65	+3	+10
15	6.92	23.95	+10	−1	17.57	25.80	−2	+11
16	7.28	23.92	+9	+3	17.87	25.96	−6	+9
17	7.64	23.90	+6	+8	18.18	26.12	−10	+5
18	8.00	23.88	+2	+10	18.48	26.28	−11	+1
19	8.36	23.86	−3	+10	18.77	26.45	−10	−4
20	8.71	23.85	−7	+8	19.06	26.62	−7	−8
21	9.07	23.85	−10	+4	19.34	26.80	−4	−10
22	9.43	23.85	−10	−1	19.62	26.98	0	−10
23	9.79	23.86	−9	−6	19.90	27.17	+4	−8
24	10.15	23.88	−6	−9	20.18	27.36	+6	−4
25	10.51	23.91	−2	−10	20.45	27.56	+7	0
26	10.86	23.94	+2	−9	20.71	27.77	+6	+4
27	11.21	23.97	+5	−6	20.97	27.97	+5	+7
28	11.56	24.01	+6	−2	21.23	28.18	+2	+9
29	11.91	24.06	+7	+1	21.48	28.40	0	+9
30	12.26	24.11	+6	+5	21.72	28.62	−3	+8
31	12.61	24.17	+4	+8	21.96	28.84	−5	+6
32	12.96	24.24	+1	+9				

δ	sec δ	tg δ	δ	sec δ	tg δ
+86° 36′ 20″	16.889	+16.860	+86° 36′ 40″	16.917	+16.887
30	16.903	+16.873	50	16.931	+16.901

$\alpha_{1929.0} = 17^{h}\ 55^{m}\ 7^{s}.37$ $\delta_{1929.0} = +86^{\circ}\ 36'\ 49''.02$

Scheinbare Sternörter 1929

Obere Kulmination Greenwich

Nh) δ Ursae minoris $4^m.44$

Tag	Mai AR.	Mai Dekl.	Mai ☾ Glieder		Juni AR.	Juni Dekl.	Juni ☾ Glieder		Juli AR.	Juli Dekl.	Juli ☾ Glieder		August AR.	August Dekl.	August ☾ Glieder	
	$17^h 55^m$	$+86° 36'$	in $0^s.01$	$0''.01$	$17^h 55^m$	$+86° 36'$	in $0^s.01$	$0''.01$	$17^h 55^m$	$+86° 36'$	in $0^s.01$	$0''.01$	$17^h 55^m$	$+86° 36'$	in $0^s.01$	$0''.01$
1	$21^s.96$	$28''.84$	−5	+6	$26^s.62$	$37''.33$	−1	−9	$25^s.25$	$46''.96$	+11	−5	$18^s.16$	$55''.18$	+3	+11
2	22.20	29.07	−6	+2	26.67	37.64	+2	−10	25.10	47.26	+12	+1	17.85	55.40	−2	+11
3	22.43	29.30	−6	−4	26.72	37.95	+7	−10	24.95	47.56	+10	+5	17.53	55.61	−6	+8
4	22.65	29.53	−4	−7	26.76	38.26	+10	−7	24.79	47.85	+6	+9	17.21	55.82	−10	+4
5	22.87	29.77	0	−10	26.79	38.58	+11	−3	24.63	48.15	+1	+11	16.89	56.03	−11	−1
6	23.09	30.02	+4	−10	26.82	38.89	+11	+2	24.46	48.44	−4	+10	16.57	56.23	−9	−6
7	23.30	30.26	+7	−9	26.84	39.20	+8	+7	24.29	48.73	−9	+6	16.24	56.43	−6	−9
8	23.50	30.51	+10	−5	26.85	39.51	+3	+10	24.11	49.01	−11	+2	15.90	56.62	−3	−10
9	23.70	30.76	+11	−1	26.86	39.83	−2	+11	23.92	49.30	−11	−3	15.56	56.81	+1	−9
10	23.89	31.02	+9	+5	26.86	40.14	−7	+9	23.73	49.59	−9	−8	15.22	57.00	+4	−6
11	24.07	31.28	+5	+9	26.86	40.46	−11	+5	23.53	49.87	−5	−10	14.87	57.18	+6	−2
12	24.25	31.55	0	+11	26.85	40.77	−12	0	23.32	50.15	−1	−10	14.52	57.36	+6	+2
13	24.43	31.82	−5	+10	26.83	41.09	−11	−5	23.11	50.43	+2	−8	14.16	57.54	+5	+6
14	24.60	32.09	−9	+7	26.80	41.40	−8	−9	22.90	50.70	+5	−5	13.80	57.71	+2	+8
15	24.76	32.36	−11	+3	26.77	41.71	−4	−10	22.68	50.98	+6	−1	13.44	57.88	0	+10
16	24.92	32.64	−11	−2	26.73	42.03	0	−9	22.45	51.25	+6	+3	13.08	58.04	−3	+9
17	25.07	32.91	−9	−7	26.69	42.34	+4	−7	22.22	51.51	+4	+7	12.71	58.20	−6	+7
18	25.22	33.19	−6	−9	26.64	42.65	+6	−3	21.99	51.78	+2	+9	12.34	58.35	−7	+4
19	25.36	33.47	−2	−10	26.58	42.97	+6	+1	21.75	52.04	−1	+10	11.96	58.50	−7	0
20	25.49	33.75	+2	−9	26.51	43.28	+5	+5	21.50	52.30	−4	+8	11.58	58.65	−6	−5
21	25.62	34.04	+5	−6	{26.44 26.36	43.59 43.90	+4 +1	+8 +9}	21.25	52.56	−6	+6	11.19	58.79	−3	−8
22	25.74	34.33	+7	−2	26.27	44.22	−2	+9	20.99	52.81	−7	+2	10.81	58.93	+1	−10
23	25.86	34.63	+7	+2	26.18	44.53	−4	+8	20.73	53.06	−7	−2	10.42	59.06	+5	−10
24	25.97	34.92	+5	+6	26.09	44.83	−6	+5	20.46	53.31	−5	−6	10.03	59.19	+9	−8
25	26.07	35.22	+3	+9	25.99	45.14	−6	+1	20.19	53.56	−1	−9	9.64	59.32	+11	−4
26	26.17	35.52	0	+9	25.88	45.45	−5	−4	19.91	53.80	+3	−11	9.24	59.44	+11	+1
27	26.26	35.81	−2	+9	25.77	45.75	−3	−8	19.63	54.04	+7	−9	8.85	59.56	+9	+6
28	26.35	36.11	−5	+7	25.65	46.06	+1	−10	19.35	54.27	+11	−6	8.45	59.67	+5	+10
29	26.43	36.42	−6	+3	25.52	46.36	+5	−10	19.06	54.50	+12	−2	8.05	59.78	+1	+11
30	26.50	36.72	−6	−1	25.39	46.66	+9	−8	18.76	54.73	+11	+4	7.64	59.88	−4	+9
31	26.56	37.02	−4	−5	25.25	46.96	+11	−5	18.46	54.96	+8	+8	7.23	59.98	−8	+6
32	26.62	37.33	−1	−9					18.16	55.18	+3	+11	6.82	60.08	−10	+1

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
+86° 36′ 20″	16.889	+16.860	+86° 36′ 40″	16.917	+16.887	+86° 36′ 60″	16.945	+16.915
30	16.903	+16.873	50	16.931	+16.901	70	16.958	+16.929

$\alpha_{1929.0} = 17^h\ 55^m\ 7^s.37$ $\delta_{1929.0} = +86°\ 36'\ 49''.02$

Obere Kulmination Greenwich

Nh) δ Ursae minoris $4^{m}.44$

Tag	September AR.	September Dekl.	September ☾ Glieder in 0.01 s	September ☾ Glieder in 0.01 ″	Oktober AR.	Oktober Dekl.	Oktober ☾ Glieder in 0.01 s	Oktober ☾ Glieder in 0.01 ″	November AR.	November Dekl.	November ☾ Glieder in 0.01 s	November ☾ Glieder in 0.01 ″	Dezember AR.	Dezember Dekl.	Dezember ☾ Glieder in 0.01 s	Dezember ☾ Glieder in 0.01 ″
	$17^{h}\,54^{m}$	+86° 37′			$17^{h}\,54^{m}$	+86° 36′			$17^{h}\,54^{m}$	+86° 36′			$17^{h}\,54^{m}$	+86° 36′		
1	66.82	0.08	−10	+1	53.97	60.64	−5	−10	41.38	56.58	+6	−3	32.58	48.68	+4	+8
2	66.41	0.17	−10	−4	53.54	60.58	−1	−10	41.01	56.38	+7	+1	32.37	48.37	+1	+10
3	66.00	0.25	−7	−8	53.11	60.52	+3	−9	40.65	56.17	+5	+5	32.17	48.06	−2	+10
4	65.59	0.33	−4	−10	52.68	60.45	+6	−5	40.30	55.95	+3	+8	31.98	47.74	−4	+8
5	65.17	0.41	0	−10	52.25	60.38	+7	−1	39.95	55.73	0	+10	31.79	47.42	−6	+5
6	64.75	0.48	+4	−8	51.83	60.30	+6	+3	39.61	55.51	−3	+9	31.61	47.10	−7	+1
7	64.33	0.54	+6	−4	51.40	60.22	+4	+7	39.27	55.28	−5	+7	31.44	46.77	−6	−3
8	63.90	0.60	+6	0	50.97	60.13	+2	+9	38.93	55.05	−7	+4	31.27	46.44	−4	−7
9	63.48	0.66	+5	+4	50.55	60.04	−1	+10	38.59	54.81	−7	0	31.11	46.11	−1	−9
10	63.05	0.71	+3	+8	50.12	59.94	−4	+9	38.26	54.57	−6	−4	30.96	45.77	+3	−10
11	62.62	0.76	+1	+9	49.70	59.84	−6	+6	37.94	54.32	−3	−8	30.81	45.44	+7	−9
12	62.19	0.80	−2	+9	49.28	59.74	−7	+3	37.62	54.07	0	−10	30.67	45.10	+11	−6
13	61.77	0.83	−5	+8	48.86	59.63	−7	−1	37.31	53.82	+5	−10	30.53	44.77	+12	−1
14	61.34	0.86	−7	+5	48.45	59.51	−5	−6	37.00	53.57	+8	−8	30.40	44.43	+11	+3
15	60.91	0.89	−7	+1	48.03	59.39	−2	−9	36.70	53.31	+11	−4	30.28	44.09	+8	+8
16	60.48	0.91	−7	−3	47.62	59.26	+2	−10	36.40	53.05	+11	0	30.17	43.75	+3	+11
17	60.05	0.93	−4	−7	47.21	59.13	+6	−10	36.10	52.78	+9	+6	30.06	43.40	−2	+11
18	59.61	0.94	−1	−10	46.80	58.99	+9	−7	35.81	52.51	+6	+9	29.96	43.06	−7	+8
19	59.18	0.95	+3	−10	46.39	58.85	+11	−3	35.53	52.23	0	+11	29.87	42.71	−10	+4
20	58.74	0.95	+7	−9	45.99	58.70	+10	+2	35.25	51.95	−5	+10	*)29.79	42.37	−11	−1
21	58.31	0.95	+10	−5	45.59	58.55	+8	+7	34.98	51.67	−9	+7	29.71	42.02	−10	−6
22	57.88	0.94	+11	−1	45.19	58.39	+4	+10	34.72	51.38	−11	+2	29.64	41.67	−7	−10
23	57.44	0.93	+10	+5	44.79	58.23	−1	+11	34.46	51.10	−11	−3	29.58	41.32	−3	−11
24	57.01	0.91	+7	+9	44.40	58.07	−6	+9	34.20	50.81	−8	−8	29.53	40.98	+1	−9
25	56.58	0.88	+2	+11	44.01	57.90	−9	+5	33.95	50.52	−5	−10	29.48	40.63	+5	−6
26	56.14	0.85	−3	+10	43.63	57.73	−10	0	33.71	50.22	0	−10	29.44	40.28	+6	−2
27	55.71	0.82	−7	+7	43.25	57.55	−9	−5	33.47	49.92	+3	−8	29.41	39.93	+6	+2
28	55.27	0.78	−10	+3	42.87	57.37	−6	−9	33.24	49.61	+6	−5	29.38	39.58	+4	+6
29	54.84	0.74	−10	−2	42.49	57.18	−2	−11	33.01	49.30	+7	0	29.36	39.22	+2	+9
30	54.41	0.69	−8	−7	42.11	56.99	+1	−10	32.79	48.99	+6	+4	29.35	38.87	−1	+10
31	53.97	0.64	−5	−10	41.74	56.79	+5	−7	32.58	48.68	+4	+8	29.35	38.53	−4	+9
32					41.38	56.58	+6	−3					29.35	38.18	−6	+7

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
+86° 36′ 30″	16.903	+16.873	+86° 36′ 40″	16.917	+16.887	+86° 37′ 0″	16.945	+16.915
40	16.917	+16.887	50	16.931	+16.901	10	16.958	+16.929

$\alpha_{1929.0} = 17^{h}\ 55^{m}\ 7^{s}.37$ $\delta_{1929.0} = +86°\ 36'\ 49''.02$

*) Tag der doppelten unteren Kulmination: Dez. 20

Scheinbare Sternörter 1929

Obere Kulmination Greenwich

Ni) λ Ursae minoris $6^m.55$

Tag	Januar AR.	Januar Dekl.	Januar ☾ Glieder	Februar AR.	Februar Dekl.	Februar ☾ Glieder	März AR.	März Dekl.	März ☾ Glieder	April AR.	April Dekl.	April ☾ Glieder
	$18^h 46^m$	$+89° 1'$	in $0^s.01$ $0''.01$	$18^h 46^m$	$+89° 1'$	in $0^s.01$ $0''.01$	$18^h 47^m$	$+89° 1'$	in $0^s.01$ $0''.01$	$18^h 47^m$	$+89° 1'$	in $0^s.01$ $0''.01$
1	56.76	55.23	−32 − 7	59.96	45.00	+18 − 5	21.78	37.92	+24 − 2	57.69	34.94	+13 + 9
2	*)56.48	54.89	−18 − 9	60.46	44.69	+25 − 1	22.81	37.74	+27 + 1	58.91	34.94	+ 2 + 9
3	56.23	54.56	− 2 − 9	60.99	44.39	+27 + 2	23.86	37.56	+25 + 5	60.13	34.95	− 9 + 8
4	56.00	54.22	+12 − 7	61.53	44.09	+23 + 6	24.92	37.39	+19 + 8	61.34	34.96	−19 + 5
5	55.80	53.89	+22 − 3	62.10	43.80	+15 + 8	25.98	37.22	+ 9 + 9	62.55	34.98	−25 + 1
6	55.62	53.55	+27 0	62.69	43.51	+ 5 + 9	27.06	37.06	− 3 + 9	63.76	35.01	−25 − 3
7	55.46	53.21	+26 + 4	63.30	43.22	− 7 + 9	28.15	36.90	−14 + 7	64.97	35.04	−19 − 7
8	55.33	52.87	+21 + 7	63.94	42.94	−18 + 6	29.26	36.75	−23 + 4	66.17	35.08	− 6 −10
9	55.23	52.54	+12 + 9	64.60	42.66	−26 + 2	30.37	36.61	−27 0	67.37	35.13	+ 9 −11
10	55.15	52.20	+ 1 + 9	65.29	42.38	−27 − 2	31.49	36.47	−25 − 5	68.56	35.18	+24 − 9
11	55.10	51.86	−11 + 8	65.99	42.11	−22 − 6	32.62	36.34	−16 − 9	69.74	35.24	+35 − 6
12	55.07	51.52	−20 + 5	66.71	41.84	−10 −10	33.76	36.21	− 2 −11	70.92	35.30	+39 − 1
13	55.07	51.19	−25 + 1	67.46	41.57	+ 6 −11	34.91	36.09	+14 −11	72.10	35.37	+34 + 5
14	55.10	50.85	−24 − 4	68.22	41.31	+22 −10	36.07	35.97	+29 − 8	73.26	35.44	+21 + 9
15	55.16	50.52	−16 − 8	69.00	41.05	+35 − 7	37.23	35.86	+38 − 4	74.42	35.52	+ 3 +11
16	55.24	50.18	− 2 −11	69.80	40.80	+41 − 2	38.40	35.76	+39 + 1	75.57	35.61	−16 +10
17	55.35	49.84	+15 −11	70.62	40.55	+39 + 3	39.58	35.66	+31 + 6	76.72	35.70	−33 + 7
18	55.48	49.51	+30 − 9	71.46	40.31	+28 + 8	40.77	35.57	+16 +10	77.85	35.80	−42 + 3
19	55.64	49.17	+41 − 5	72.32	40.07	+10 +10	41.96	35.48	− 3 +11	78.98	35.90	−42 − 2
20	55.82	48.84	+43 0	73.19	39.83	− 9 +10	43.15	35.40	−21 + 9	80.09	36.01	−35 − 6
21	56.03	48.51	+36 + 5	74.08	39.60	−27 + 8	44.35	35.33	−35 + 6	81.20	36.13	−22 − 9
22	56.26	48.18	+21 + 9	74.99	39.37	−38 + 4	45.55	35.26	−41 + 1	82.30	36.25	− 7 − 9
23	56.52	47.85	+ 2 +10	75.91	39.15	−41 − 1	46.76	35.20	−39 − 4	83.39	36.37	+ 8 − 8
24	56.80	47.53	−18 +10	76.85	38.93	−37 − 5	47.96	35.15	−30 − 7	84.47	36.50	+20 − 5
25	57.11	47.20	−34 + 6	77.81	38.72	−26 − 8	49.17	35.10	−16 − 9	85.54	36.64	+27 − 2
26	57.45	46.88	−42 + 2	78.78	38.51	−11 − 9	50.39	35.06	+ 1 − 9	86.59	36.78	+28 + 3
27	57.81	46.56	−42 − 3	79.77	38.31	+ 5 − 9	51.60	35.02	+13 − 7	87.64	36.92	+25 + 6
28	58.19	46.24	−35 − 6	80.77	38.11	+16 − 6	52.82	34.99	+23 − 4	88.67	37.07	+17 + 8
29	58.60	45.92	−22 − 9	81.78	37.92	+24 − 2	54.04	34.97	+28 0	89.69	37.23	+ 7 + 9
30	59.03	45.61	− 7 − 9				55.25	34.95	+27 + 4	90.69	37.39	− 5 + 9
31	59.48	45.30	+ 7 − 8				56.47	34.94	+22 + 7	91.68	37.56	−15 + 6
32	59.96	45.00	+18 − 5				57.69	34.94	+13 + 9			

δ	sec δ	tg δ	δ	sec δ	tg δ
+89° 1′ 30″	58.768	+58.759	+89° 1′ 50″	59.104	+59.096
40	58.936	+58.927	60	59.274	+59.266

$\alpha_{1929.0} = 18^h\ 48^m\ 0^s.36$ $\delta_{1929.0} = +89°\ 1'\ 59''.93$

*) Tag der doppelten unteren Kulmination: Jan. 2

Scheinbare Sternörter 1929

Obere Kulmination Greenwich

Ni) λ Ursae minoris $6^m.55$

Tag	Mai AR.	Mai Dekl.	Mai ☾ Glieder		Juni AR.	Juni Dekl.	Juni ☾ Glieder		Juli AR.	Juli Dekl.	Juli ☾ Glieder		August AR.	August Dekl.	August ☾ Glieder	
	$18^h 48^m$	+89° 1′	in 0.01s	in 0.01″	$18^h 48^m$	+89° 1′	in 0.01s	in 0.01″	$18^h 48^m$	+89° 1′	in 0.01s	in 0.01″	$18^h 48^m$	+89° 2′	in 0.01s	in 0.01″
1	31.68	37.56	−15	+6	54.27	44.82	−13	−8	57.52	54.07	+27	−10	39.58	3.74	+22	+10
2	32.66	37.73	−22	+3	54.69	45.10	0	−11	57.28	54.39	+40	−7	38.69	4.02	+2	+11
3	33.62	37.91	−24	−1	55.09	45.39	+16	−11	57.03	54.70	+47	−2	37.79	4.29	−18	+9
4	34.57	38.09	−20	−6	55.47	45.69	+31	−9	56.75 56.45	55.02 55.34	+43 +31	+3 +8	36.87	4.56	−34	+6
5	35.50	38.28	−10	−9	55.83	45.98	+41	−5	56.13	55.66	+12	+10	35.93	4.82	−42	+1
6	36.42	38.47	+5	−11	56.17	46.28	+43	0	55.79	55.98	−9	+11	34.97	5.08	−41	−4
7	37.33	38.67	+20	−11	56.49	46.58	+36	+5	55.42	56.29	−28	+8	33.99	5.34	−33	−8
8	38.22	38.87	+33	−8	56.78	46.88	+20	+9	55.04	56.61	−41	+4	33.00	5.60	−19	−10
9	39.09	39.08	+40	−3	57.06	47.18	0	+11	54.63	56.92	−45	−1	31.99	5.86	−4	−9
10	39.95	39.29	+38	+2	57.31	47.48	−20	+10	54.20	57.23	−41	−5	30.96	6.11	+10	−7
11	40.79	39.50	+29	+7	57.54	47.78	−36	+7	53.76	57.55	−29	−8	29.92	6.36	+20	−3
12	41.62	39.72	+11	+10	57.75	48.09	−45	+2	53.29	57.86	−14	−10	28.86	6.60	+24	+1
13	42.43	39.94	−10	+11	57.94	48.39	−45	−3	52.79	58.16	+1	−9	27.78	6.84	+23	+5
14	43.22	40.17	−28	+9	58.11	48.70	−37	−7	52.28	58.47	+14	−6	26.69	7.08	+16	+8
15	43.99	40.40	−41	+5	58.25	49.01	−23	−9	51.75	58.78	+22	−2	25.58	7.32	+7	+10
16	44.75	40.63	−45	0	58.37	49.32	−7	−9	51.19	59.08	+24	+2	24.46	7.55	−4	+10
17	45.49	40.87	−41	−4	58.47	49.63	+8	−7	50.62	59.39	+22	+6	23.32	7.78	−15	+8
18	46.21	41.11	−30	−8	58.55	49.94	+19	−4	50.02	59.69	+14	+8	22.17	8.00	−24	+5
19	46.92	41.35	−15	−9	58.61	50.25	+25	0	49.40	59.99	+4	+9	21.00	8.22	−28	+1
20	47.60	41.60	+1	−9	58.64	50.57	+26	+3	48.76	60.29	−8	+9	19.82	8.44	−27	−3
21	48.26	41.85	+15	−7	58.65	50.89	+21	+7	48.10	60.59	−18	+7	18.63	8.65	−19	−7
22	48.91	42.10	+24	−3	58.63	51.21	+12	+9	47.43	60.88	−25	+4	17.42	8.86	−6	−10
23	49.53	42.36	+28	+1	58.60	51.52	+1	+10	46.73	61.18	−27	0	16.20	9.07	+11	−11
24	50.14	42.62	+26	+5	58.54	51.84	−12	+8	46.01	61.47	−23	−5	14.96	9.28	+27	−10
25	50.72	42.88	+20	+8	58.46	52.16	−19	+6	45.27	61.76	−13	−9	13.71	9.48	+40	−6
26	51.29	43.15	+10	+9	58.36	52.48	−24	+2	44.51	62.05	+2	−11	12.44	9.68	+45	−1
27	51.84	43.42	−1	+9	58.23	52.80	−24	−2	43.74	62.34	+19	−11	11.17	9.87	+41	+4
28	52.36	43.70	−12	+8	58.09	53.11	−18	−7	42.94	62.63	+35	−9	9.88	10.06	+29	+8
29	52.87	43.97	−20	+4	57.92	53.43	−6	−10	42.13	62.91	+45	−4	8.58	10.25	+11	+11
30	53.35	44.25	−24	0	57.73	53.75	+10	−11	41.30	63.19	+46	+1	7.26	10.43	−9	+10
31	53.82	44.53	−22	−4	57.52	54.07	+27	−10	40.45	63.47	+38	+6	5.94	10.61	−26	+7
32	54.27	44.82	−13	−8					39.58	63.74	+22	+10	4.60	10.78	−38	+3

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
+89° 1′ 30″	58.768	+58.759	+89° 1′ 50″	59.104	+59.096	+89° 2′ 10″	59.445	+59.437
40	58.936	+58.927	2 0	59.274	+59.266	20	59.617	+59.608

$\alpha_{1929.0} = 18^h\ 48^m\ 0^s.36$ $\delta_{1929.0} = +89°\ 1'\ 59''.93$

Scheinbare Sternörter 1929

Obere Kulmination Greenwich

Ni) λ Ursae minoris $6^m.55$

Tag	September			Oktober			November			Dezember		
	AR.	Dekl.	☾ Glieder	AR.	Dekl.	☾ Glieder	AR.	Dekl.	☾ Glieder	AR.	Dekl.	☾ Glieder
	$18^h 47^m$	+89° 2′	in $0^s.01$ $0''.01$	$18^h 46^m$	+89° 2′	in $0^s.01$ $0''.01$	$18^h 45^m$	+89° 2′	in $0^s.01$ $0''.01$	$18^h 45^m$	+89° 1′	in $0^s.01$ $0''.01$
1	64.60	10.78	−38 +3	80.65	13.94	−27 −9	93.46	12.60	+22 −4	55.76	66.82	+22 +6
2	63.26	10.95	−40 −2	79.10	13.97	−12 −11	92.02	12.47	+27 0	54.75	66.56	+14 +9
3	61.90	11.11	−35 −6	77.55	14.00	+4 −9	90.59	12.34	+25 +4	53.77	66.30	+1 +10
4	60.54	11.27	−23 −9	76.00	14.02	+18 −6	89.17	12.21	+19 +7	52.80	66.03	−10 +9
5	59.16	11.43	−7 −10	74.46	14.04	+24 −2	87.76	12.07	+9 +9	51.86	65.76	−20 +7
6	57.78	11.58	+7 −8	72.91	14.05	+26 +2	86.36	11.93	−2 +10	50.93	65.49	−26 +3
7	56.38	11.73	+18 −5	71.36	14.06	+23 +6	84.97	11.78	−13 +8	50.02	65.22	−26 −1
8	54.97	11.87	+24 −1	69.81	14.06	+15 +8	83.59	11.63	−22 +5	49.14	64.94	−21 −5
9	53.55	12.01	+24 +3	68.25	14.06	+4 +10	82.22	11.47	−26 +1	48.28	64.66	−11 −9
10	52.13	12.15	+19 +7	66.70	14.05	−7 +9	80.87	11.31	−26 −3	47.44	64.37	+4 −11
11	50.69	12.28	+11 +9	65.16	14.04	−18 +7	79.53	11.14	−19 −7	46.62	64.08	+21 −11
12	49.25	12.41	0 +10	63.61	14.02	−25 +4	78.20	10.97	−6 −10	45.82	63.79	+35 −8
13	47.80	12.53	−12 +9	62.06	14.00	−28 0	76.88	10.79	+9 −11	45.05	63.49	+44 −4
14	46.34	12.65	−21 +6	60.51	13.97	−26 −4	75.58	10.61	+25 −10	44.30	63.19	+45 +1
15	44.87	12.76	−27 +3	58.97	13.94	−16 −8	74.29	10.42	+37 −7	43.57	62.89	+37 +6
16	43.40	12.87	−28 −2	57.43	13.90	−3 −11	73.01	10.23	+43 −2	42.86	62.59	+21 +10
17	41.92	12.97	−23 −6	55.90	13.86	+13 −11	71.75	10.03	+40 +3	42.18	62.28	+1 +11
18	40.43	13.07	−12 −9	54.37	13.81	+28 −9	70.50	9.83	+29 +8	41.52	61.97	−20 +10
19	38.94	13.16	+3 −11	52.84	13.76	+39 −5	69.27	9.62	+11 +11	40.88	61.66	−36 +6
20	37.44	13.25	+19 −10	51.32	13.70	+42 0	68.05	9.41	−9 +11	40.27	61.35	−44 +1
21	35.94	13.34	+33 −8	49.80	13.64	+36 +5	66.85	9.20	−28 +8	39.68	61.03	−43 −4
22	34.43	13.42	+42 −3	48.28	13.57	+22 +9	65.66	8.98	−40 +4	39.11	60.71	−34 −8
23	32.91	13.49	+42 +2	46.76	13.50	+3 +11	64.49	8.76	−44 −1	38.57	60.39	−19 −10
24	31.39	13.56	+33 +7	45.26	13.42	−16 +10	63.33	8.53	−39 −6	38.05	60.07	−3 −9
25	29.87	13.63	+17 +10	43.76	13.34	−32 +7	62.20	8.30	−27 −9	37.56	59.75	+12 −7
26	28.34	13.69	−2 +11	42.26	13.25	−41 +2	61.08	8.06	−11 −10	37.10	59.42	+22 −3
27	26.81	13.75	−21 +9	40.78	13.15	−41 −3	59.98	7.82	+5 −9	36.66	59.09	+25 +1
28	25.27	13.81	−34 +5	39.30	13.05	−33 −7	58.89	7.58	+18 −6	36.24	58.76	+22 +5
29	23.73	13.86	−40 0	37.83	12.94	−19 −10	57.83	7.33	+25 −2	35.85	58.43	+15 +8
30	22.19	13.90	−37 −6	36.36	12.83	−2 −10	56.78	7.08	+26 +3	35.49	58.10	+4 +10
31	20.65	13.94	−27 −9	34.91	12.72	+12 −8	55.76	6.82	+22 +6	35.15	57.77	−7 +10
32				33.46	12.60	+22 −4				34.84	57.44	−18 +8

δ	sec δ	tg δ	δ	sec δ	tg δ
+89° 1′ 50″	59.104	+59.096	+89° 2′ 10″	59.445	+59.437
60	59.274	+59.266	20	59.617	+59.608

$\alpha_{1929.0} = 18^h\ 48^m\ 0^s.36$ $\delta_{1929.0} = +89°\ 1'\ 59''.93$

Scheinbare Sternörter 1929

Obere Kulmination Greenwich

Nk) 76 Draconis $5^m.69$

Tag	Januar			Februar			März			April		
	AR.	Dekl.	☾ Glieder	AR.	Dekl.	☾ Glieder	AR.	Dekl.	☾ Glieder	AR.	Dekl.	☾ Glieder
	$20^h 47^m$	$+82° 16'$	in 0.01^s $0.01''$	$20^h 47^m$	$+82° 15'$	in 0.01^s $0.01''$	$20^h 47^m$	$+82° 15'$	in 0.01^s $0.01''$	$20^h 47^m$	$+82° 15'$	in 0.01^s $0.01''$
1	$41^s.37$	$15''.04$	−4 −3	$39^s.49$	$65''.44$	0 −6	$40^s.35$	$56''.39$	+1 −5	$43^s.72$	$49''.30$	+3 +6
2	41.27	14.77	−4 −6	*)39.48	65.11	+2 −4	40.42	56.10	+2 −2	43.86	49.15	+3 +8
3	41.17	14.50	−2 −7	39.47	64.77	+3 −1	40.49	55.81	+3 +1	44.00	49.01	+1 +8
4	41.07	14.22	−1 −7	39.46	64.44	+3 +3	40.57	55.52	+4 +5	44.14	48.88	0 +7
5	40.97	13.94	+1 −6	39.46	64.10	+3 +6	40.65	55.24	+3 +7	44.29	48.75	−1 +4
6	40.88	13.66	+2 −3	39.46	63.77	+3 +8	40.74	54.96	+2 +8	44.43	48.63	−3 0
7	40.79	13.37	+3 0	39.47	63.43	+2 +9	40.82	54.68	+1 +8	44.58	48.51	−3 −4
8	40.70	13.09	+4 +4	39.48	63.10	0 +8	40.91	54.41	−1 +6	44.72	48.40	−3 −8
9	40.62	12.80	+3 +6	39.49	62.76	−1 +5	41.00	54.14	−2 +3	44.87	48.29	−2 −11
10	40.54	12.51	+3 +8	39.50	62.43	−3 +1	41.09	53.88	−3 −1	45.02	48.19	−1 −11
11	40.46	12.21	+1 +8	39.52	62.09	−3 −3	41.19	53.62	−4 −6	45.17	48.10	+1 −9
12	40.38	11.91	0 +7	39.54	61.76	−3 −7	41.29	53.37	−3 −9	45.32	48.01	+3 −5
13	40.31	11.60	−2 +4	39.56	61.43	−3 −11	41.39	53.12	−2 −11	45.48	47.93	+4 0
14	40.24	11.29	−3 0	39.59	61.10	−1 −12	41.50	52.87	0 −11	45.63	47.86	+4 +5
15	40.18	10.98	−3 −5	39.62	60.77	+1 −10	41.61	52.63	+2 −8	45.78	47.79	+3 +9
16	40.11	10.67	−3 −9	39.65	60.45	+3 −7	41.72	52.39	+3 −3	45.94	47.73	+1 +11
17	40.05	10.35	−2 −12	39.69	60.12	+4 −2	41.83	52.16	+4 +2	46.09	47.68	0 +11
18	39.99	10.04	0 −12	39.73	59.80	+4 +4	41.94	51.94	+4 +7	46.24	47.63	−2 +8
19	39.93	9.72	+2 −9	39.77	59.48	+3 +8	42.05	51.72	+3 +10	46.40	47.58	−4 +4
20	39.88	9.40	+3 −5	39.81	59.16	+2 +10	42.17	51.50	+1 +11	46.55	47.54	−4 −1
21	39.83	9.08	+4 0	39.86	58.84	0 +10	42.29	51.29	−1 +9	46.71	47.51	−4 −5
22	39.79	8.75	+4 +6	39.91	58.52	−2 +8	42.41	51.08	−3 +6	46.87	47.49	−3 −7
23	39.75	8.42	+3 +9	39.96	58.21	−3 +4	42.53	50.88	−4 +1	47.03	47.47	−2 −8
24	39.71	8.09	+1 +11	40.02	57.90	−4 0	42.66	50.68	−4 −3	47.18	47.46	0 −7
25	39.67	7.76	−1 +10	40.08	57.59	−4 −4	42.78	50.49	−4 −6	47.34	47.46	+2 −5
26	39.64	7.43	−3 +7	40.14	57.28	−3 −7	42.91	50.30	−3 −8	47.50	47.46	+3 −1
27	39.61	7.10	−4 +3	40.21	56.98	−2 −8	43.04	50.12	−1 −8	47.66	47.46	+3 +2
28	39.58	6.77	−4 −2	40.28	56.68	0 −7	43.17	49.94	+1 −6	47.81	47.47	+3 +5
29	39.55	6.44	−4 −5	40.35	56.39	+1 −5	43.31	49.77	+2 −3	47.97	47.49	+3 +7
30	39.53	6.11	−3 −7				43.44	49.61	+3 0	48.12	47.52	+2 +8
31	39.51	5.78	−1 −8				43.58	49.45	+3 +3	48.28	47.55	+1 +8
32	39.49	5.44	0 −6				43.72	49.30	+3 +6			

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
+82° 15′ 40″	7.426	+7.359	+82° 16′ 0″	7.431	+7.364	+82° 16′ 10″	7.434	+7.367
50	7.429	+7.361	10	7.434	+7.367	20	7.437	+7.369

$\alpha_{1929.0} = 20^h\ 47^m\ 50^s.21$ $\delta_{1929.0} = +82°\ 16'\ 11''.44$

*) Tag der doppelten unteren Kulmination: Feb. 2

Scheinbare Sternörter 1929

Obere Kulmination Greenwich

Nk) 76 Draconis $5^m.69$

Tag	Mai AR.	Mai Dekl.	Mai ☾ Glieder	Juni AR.	Juni Dekl.	Juni ☾ Glieder	Juli AR.	Juli Dekl.	Juli ☾ Glieder	August AR.	August Dekl.	August ☾ Glieder
	$20^h 47^m$	+82° 15′	in 0.01 0.01	$20^h 47^m$	+82° 15′	in 0.01 0.01	$20^h 47^m$	+82° 15′	in 0.01 0.01	$20^h 47^m$	+82° 16′	in 0.01 0.01
1	48.28	47.55	+1 +8	52.80	51.44	−3 −6	55.72	59.54	−1 −13	56.45	10.26	+4 +1
2	48.44	47.59	−1 +5	52.93	51.65	−3 −10	55.78	59.86	+1 −11	56.43	10.62	+4 +6
3	48.59	47.63	−2 +2	53.05	51.87	−2 −12	55.84	60.18	+3 −8	{56.41 56.39	10.98 11.33	+3 +9 +1 +11}
4	48.75	47.68	−3 −3	53.17	52.09	0 −12	55.90	60.51	+4 −2	56.36	11.69	−1 +9
5	48.90	47.74	−3 −7	53.29	52.31	+2 −9	55.95	60.84	+4 +3	56.33	12.05	−3 +6
6	49.06	47.80	−3 −10	53.41	52.54	+3 −5	56.01	61.17	+4 +8	56.30	12.41	−4 +2
7	49.21	47.87	−1 −12	53.53	52.77	+4 0	56.06	61.50	+2 +11	56.27	12.76	−4 −3
8	49.37	47.94	0 −11	53.65	53.01	+4 +6	56.10	61.83	0 +11	56.23	13.12	−4 −6
9	49.52	48.02	+2 −7	53.76	53.25	+3 +10	56.15	62.16	−2 +9	56.19	13.48	−3 −8
10	49.68	48.11	+3 −2	53.87	53.50	+1 +11	56.19	62.50	−3 +5	56.15	13.83	−1 −7
11	49.83	48.20	+4 +3	53.98	53.75	−1 +11	56.23	62.84	−4 0	56.11	14.19	+1 −5
12	49.98	48.30	+4 +8	54.09	54.01	−3 +8	56.27	63.18	−4 −4	56.06	14.55	+2 −2
13	50.13	48.40	+2 +11	54.19	54.27	−4 +3	56.30	63.53	−4 −7	56.01	14.90	+3 +1
14	50.28	48.51	0 +11	54.29	54.53	−4 −1	56.33	63.87	−2 −8	55.96	15.25	+3 +5
15	50.43	48.63	−2 +10	54.39	54.80	−3 −5	56.36	64.22	0 −7	55.90	15.60	+3 +8
16	50.57	48.75	−3 +6	54.49	55.07	−2 −7	56.39	64.57	+1 −4	55.84	15.95	+2 +9
17	50.72	48.87	−4 +1	54.59	55.35	−1 −8	56.41	64.92	+2 −1	55.78	16.30	+1 +9
18	50.87	49.00	−4 −3	54.69	55.63	0 −6	56.43	65.27	+3 +3	55.72	16.65	0 +7
19	51.02	49.14	−4 −6	54.78	55.91	+2 −3	56.45	65.62	+3 +6	55.66	17.00	−2 +4
20	51.16	49.29	−2 −8	54.87	56.19	+3 0	56.47	65.97	+3 +8	55.59	17.35	−3 0
21	51.31	49.44	−1 −8	54.96	56.48	+3 +3	56.48	66.33	+2 +9	55.52	17.69	−3 −4
22	51.46	49.60	+1 −5	55.04	56.77	+3 +6	56.49	66.68	0 +8	55.45	18.03	−3 −8
23	51.60	49.76	+2 −3	55.12	57.07	+3 +8	56.50	67.04	−1 +6	55.37	18.37	−2 −11
24	51.74	49.93	+3 +1	55.20	57.37	+1 +9	56.51	67.39	−2 +3	55.30	18.71	−1 −12
25	51.88	50.10	+3 +4	55.28	57.67	0 +7	56.51	67.75	−3 −2	55.22	19.05	+1 −10
26	52.01	50.27	+3 +7	55.36	57.98	−1 +5	56.51	68.11	−3 −6	55.14	19.39	+3 −6
27	52.15	50.45	+2 +8	55.44	58.28	−3 +1	56.51	68.47	−3 −10	55.05	19.72	+4 −1
28	52.28	50.64	+1 +8	55.51	58.59	−3 −4	56.50	68.82	−1 −12	54.96	20.05	+4 +4
29	52.41	50.83	0 +6	55.58	58.90	−3 −8	56.49	69.18	0 −12	54.87	20.38	+4 +8
30	52.54	51.03	−2 +3	55.65	59.22	−2 −11	56.48	69.54	+2 −9	54.78	20.71	+2 +10
31	52.67	51.23	−3 −1	55.72	59.54	−1 −13	56.47	69.90	+4 −5	54.68	21.04	0 +10
32	52.80	51.44	−3 −6				56.45	70.26	+4 +1	54.59	21.36	−2 +7

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
+82° 15′ 40″	7.426	+7.359	+82° 15′ 60″	7.431	+7.364	+82° 16′ 20″	7.437	+7.369
50	7.429	+7.361	70	7.434	+7.367	30	7.439	+7.372

$\alpha_{1929.0} = 20^h\ 47^m\ 50^s.21$ $\delta_{1929.0} = +82°\ 16'\ 11''.44$

Scheinbare Sternörter 1929

Obere Kulmination Greenwich

Nk) 76 Draconis $5^{m}.69$

Tag	September			Oktober			November			Dezember		
	AR.	Dekl.	☾ Glieder	AR.	Dekl.	☾ Glieder	AR.	Dekl.	☾ Glieder	AR.	Dekl.	☾ Glieder
	$20^h 47^m$	+82° 16′	in 0.01s 0.01″	$20^h 47^m$	+82° 16′	in 0.01s 0.01″	$20^h 47^m$	+82° 16′	in 0.01s 0.01″	$20^h 47^m$	+82° 16′	in 0.01s 0.01″
1	54.59	21.36	−2 + 7	50.80	29.64	−4 − 4	45.58	34.25	+1 − 6	40.35	33.71	+3 + 3
2	54.49	21.68	−4 + 3	50.64	29.86	−3 − 7	45.41	34.32	+2 − 3	40.19	33.60	+3 + 7
3	54.39	22.00	−4 − 1	50.49	30.08	−2 − 9	45.23	34.38	+3 + 1	40.03	33.49	+3 + 9
4	54.29	22.31	−4 − 5	50.33	30.29	0 − 8	45.05	34.43	+3 + 4	39.87	33.37	+2 + 9
5	54.18	22.62	−3 − 8	50.18	30.50	+1 − 5	44.87	34.48	+3 + 7	39.71	33.24	0 + 8
6	54.08	22.93	−2 − 8	50.02	30.70	+2 − 2	44.69	34.52	+2 + 9	39.55	33.11	−1 + 6
7	53.97	23.24	0 − 7	49.86	30.90	+3 + 2	44.51	34.56	+1 + 9	39.39	32.97	−2 + 2
8	53.86	23.55	+2 − 4	49.70	31.09	+3 + 6	44.33	34.59	0 + 7	39.24	32.83	−3 − 2
9	53.75	23.85	+3 0	49.54	31.28	+3 + 8	44.15	34.61	−2 + 5	39.08	32.68	−3 − 7
10	53.63	24.15	+3 + 4	49.38	31.47	+2 + 9	43.97	34.63	−3 0	38.93	32.53	−2 −10
11	53.52	24.45	+3 + 7	49.21	31.65	+1 + 9	43.80	34.65	−3 − 4	38.78	32.37	−1 −12
12	53.40	24.74	+2 + 9	49.05	31.82	−1 + 7	43.62	34.66	−3 − 8	38.63	32.21	0 −12
13	53.28	25.03	+1 + 9	48.88	31.99	−2 + 3	43.44	34.66	−2 −11	38.49	32.04	+2 − 9
14	53.16	25.31	0 + 8	48.72	32.16	−3 − 1	43.26	34.66	−1 −12	38.34	31.86	+4 − 5
15	53.03	25.59	−1 + 6	48.55	32.32	−3 − 5	43.09	34.65	+1 −11	38.20	31.68	+4 + 1
16	52.91	25.87	−3 + 2	48.38	32.47	−3 − 9	42.91	34.63	+3 − 7	38.06	31.50	+4 + 6
17	52.78	26.15	−3 − 3	48.21	32.62	−2 −11	42.73	34.61	+4 − 2	37.92	31.31	+3 +10
18	52.65	26.42	−3 − 7	48.04	32.76	0 −11	42.56	34.58	+4 + 3	37.78	31.11	+1 +11
19	52.52	26.69	−3 −10	47.86	32.90	+2 − 9	42.38	34.55	+4 + 8	37.65	30.91	−1 +10
20	52.39	26.96	−1 −12	47.69	33.04	+3 − 5	42.20	34.51	+2 +11	37.52	30.70	−3 + 6
21	52.25	27.22	0 −11	47.52	33.17	+4 0	42.03	34.47	0 +11	37.39	30.49	−4 + 2
22	52.11	27.48	+2 − 8	47.34	33.29	+4 + 5	41.86	34.42	−2 + 9	37.26	30.28	−5 − 3
23	51.97	27.73	+4 − 3	47.17	33.41	+3 + 9	41.69	34.36	−3 + 5	37.13	30.06	−4 − 6
24	51.83	27.98	+4 + 2	47.00	33.53	+1 +11	41.52	34.30	−4 0	37.00	29.83	−3 − 8
25	51.69	28.23	+4 + 7	46.82	33.64	−1 +10	41.35	34.23	−4 − 5	36.88	29.60	−1 − 8
26	51.55	28.48	+3 +10	46.65	33.74	−2 + 7	41.18	34.16	−3 − 8	36.76	29.37	+1 − 5
27	51.40	28.72	+1 +10	46.47	33.84	−4 + 2	41.01	34.08	−2 − 9	36.64	29.13	+2 − 2
28	51.25	28.96	−1 + 9	46.29	33.93	−4 − 2	40.85	34.00	0 − 7	36.53	28.89	+3 + 2
29	51.10	29.19	−3 + 5	46.12	34.02	−4 − 6	40.68	33.91	+1 − 4	36.42	28.64	+3 + 6
30	50.95	29.42	−4 + 1	45.94	34.10	−3 − 8	40.51	33.81	+3 − 1	36.31	28.39	+3 + 8
31	50.80	29.64	−4 − 4	45.76	34.18	−1 − 8	40.35	33.71	+3 + 3	36.20	28.13	+2 + 9
32				45.58	34.25	+1 − 6				36.10	27.87	+1 + 9

δ	sec δ	tg δ	δ	sec δ	tg δ
+82° 16′ 20″	7.437	+7.369	+82° 16′ 30″	7.439	+7.372
30	7.439	+7.372	40	7.442	+7.375

$\alpha_{1929.0} = 20^h\ 47^m\ 50^s.21 \qquad \delta_{1929.0} = +82^\circ\ 16'\ 11''.44$

Scheinbare Sternörter 1929

Obere Kulmination Greenwich

Sa) Octantis 4 G. $5^m.63$

Tag	Januar AR.	Januar Dekl.	Januar ☾ Glieder	Februar AR.	Februar Dekl.	Februar ☾ Glieder	März AR.	März Dekl.	März ☾ Glieder	April AR.	April Dekl.	April ☾ Glieder
	1^h41^m	−85° 8′	in 0.01ˢ 0.01″	1^h41^m	−85° 7′	in 0.01ˢ 0.01″	1^h41^m	−85° 7′	in 0.01ˢ 0.01″	1^h41^m	−85° 7′	in 0.01ˢ 0.01″
1	26.82	6.46	+6 + 9	18.79	63.94	+3 − 5	12.62	57.19	+1 − 6	8.45	46.46	−7 − 5
2	26.57	6.46	+7 + 5	18.54	63.77	0 − 7	12.43	56.89	−2 − 8	8.38	46.08	−7 − 2
3	26.31	6.46	+6 + 1	18.30	63.59	−3 − 8	12.25	56.58	−4 − 8	8.31	45.70	−5 + 1
4	26.05	6.46	+4 − 3	18.05	63.40	−5 − 7	12.07	56.27	−6 − 6	8.24	45.32	−3 + 5
5	25.79	6.45	+2 − 6	17.81	63.21	−6 − 5	11.90	55.96	−7 − 3	8.17	44.93	0 + 7
6	25.53	6.44	−1 − 7	17.57	63.02	−7 − 2	11.73	55.64	−6 0	8.11	44.55	+3 + 7
7	25.27	6.42	−4 − 8	17.33	62.82	−6 + 1	11.56	55.32	−5 + 3	8.05	44.17	+6 + 6
8	25.00	6.40	−6 − 7	17.09	62.61	−4 + 4	11.39	55.00	−2 + 6	8.00	43.78	+8 + 3
9	24.74	6.37	−7 − 4	16.86	62.40	−1 + 6	11.23	54.67	+1 + 7	7.95	43.40	+8 − 1
10	24.48	6.33	−7 − 1	16.63	62.18	+2 + 7	11.07	54.34	+4 + 7	7.90	43.01	+6 − 5
11	24.22	6.28	−5 + 2	16.40	61.96	+5 + 6	10.92	54.00	+7 + 5	7.86	42.62	+3 − 9
12	23.95	6.23	−3 + 5	16.17	61.73	+8 + 4	10.77	53.66	+8 + 2	7.82	42.24	0 −10
13	23.69	6.17	0 + 7	15.94	61.50	+8 0	10.62	53.32	+8 − 3	7.78	41.85	−4 − 9
14	23.42	6.11	+4 + 7	15.72	61.26	+7 − 5	10.47	52.98	+5 − 7	7.75	41.47	−7 − 6
15	23.16	6.04	+6 + 5	15.49	61.02	+4 − 9	10.33	52.63	+2 −10	7.72	41.08	−7 − 2
16	22.90	5.97	+8 + 2	15.27	60.77	0 −11	10.19	52.28	−2 −10	7.70	40.69	−7 + 4
17	22.64	5.89	+8 − 3	15.05	60.52	−3 −10	10.05	51.93	−5 − 9	*)7.68	40.31	−5 + 8
18	22.37	5.80	+6 − 7	14.83	60.27	−6 − 8	9.92	51.58	−7 − 5	7.67	39.92	−1 +11
19	22.11	5.71	+3 −10	14.62	60.01	−7 − 3	9.79	51.23	−8 0	7.66	39.54	+2 +11
20	21.85	5.61	−1 −11	14.41	59.75	−7 + 2	9.67	50.88	−6 + 5	7.66	39.15	+5 +10
21	21.59	5.50	−5 −10	14.20	59.48	−5 + 6	9.55	50.52	−3 + 9	7.66	38.76	+7 + 7
22	21.33	5.39	−7 − 6	13.99	59.21	−2 +10	9.43	50.16	0 +11	7.66	38.38	+7 + 3
23	21.07	5.27	−8 − 1	13.79	58.93	+1 +11	9.32	49.80	+3 +11	7.67	37.99	+6 − 1
24	20.81	5.15	−7 + 4	13.59	58.65	+4 +10	9.21	49.43	+6 + 9	7.68	37.60	+3 − 5
25	20.56	5.02	−4 + 8	13.39	58.37	+6 + 8	9.10	49.07	+7 + 5	7.70	37.22	0 − 7
26	20.30	4.88	−1 +11	13.19	58.08	+7 + 4	9.00	48.70	+7 + 1	7.72	36.84	−2 − 8
27	20.05	4.74	+3 +11	13.00	57.79	+6 0	8.90	48.33	+5 − 3	7.74	36.46	−5 − 7
28	19.79	4.59	+5 +10	12.81	57.49	+4 − 4	8.80	47.96	+2 − 6	7.76	36.08	−6 − 6
29	19.54	4.44	+6 + 6	12.62	57.19	+1 − 6	8.71	47.59	−1 − 7	7.79	35.70	−7 − 3
30	19.29	4.28	+6 + 2				8.62	47.21	−3 − 8	7.82	35.32	−6 0
31	19.04	4.11	+5 − 1				8.53	46.83	−6 − 7	7.86	34.94	−4 + 3
32	18.79	3.94	+3 − 5				8.45	46.46	−7 − 5			

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
−85° 7′ 30″	11.767	−11.725	−85° 7′ 50″	11.781	−11.738	−85° 8′ 0″	11.787	−11.745
40	11.774	−11.731	60	11.787	−11.745	10	11.794	−11.752

$\alpha_{1929.0} = 1^h 41^m 18^s.51$ $\delta_{1929.0} = -85° 7' 43''.60$

*) Tag der doppelten unteren Kulmination: April 17

Sa) Octantis 4 G. $5^m.63$

Tag	Mai AR.	Mai Dekl.	Mai ☾ Glieder	Juni AR.	Juni Dekl.	Juni ☾ Glieder	Juli AR.	Juli Dekl.	Juli ☾ Glieder	August AR.	August Dekl.	August ☾ Glieder
	$1^h 41^m$	$-85° 7'$	in 0.01^s $0.01''$	$1^h 41^m$	$-85° 7'$	in 0.01^s $0.01''$	$1^h 41^m$	$-85° 7'$	in 0.01^s $0.01''$	$1^h 41^m$	$-85° 7'$	in 0.01^s $0.01''$
1	$7^s.86$	$34''.94$	−4 + 3	$10^s.93$	$24''.22$	+7 + 5	$16^s.84$	$17''.06$	+7 − 6	$24^s.48$	$14''.61$	−5 −10
2	7.90	34.56	−1 + 6	11.09	23.92	+8 + 1	17.07	16.90	+4 −10	24.73	14.62	−7 − 6
3	7.95	34.18	+2 + 7	11.25	23.62	+8 − 3	17.31	16.74	+1 −12	24.98	14.64	−8 − 1
4	8.00	33.81	+5 + 6	11.41	23.33	+6 − 7	17.54	16.59	−3 −11	25.23	14.67	−6 + 4
5	8.06	33.44	+7 + 4	11.58	23.04	+3 −10	17.78	16.44	−6 − 9	25.47	14.70	−3 + 9
6	8.12	33.07	+8 0	11.75	22.75	−1 −11	18.01	16.30	−8 − 4	25.72	14.74	0 +11
7	8.18	32.70	+7 − 4	11.92	22.47	−5 −10	18.25	16.16	−7 + 2	25.97	14.78	+4 +11
8	8.24	32.33	+5 − 8	12.10	22.19	−7 − 6	18.49	16.03	−5 + 7	26.21	14.83	+6 + 9
9	8.31	31.96	+1 −10	12.28	21.92	−8 − 1	18.73	15.90	−2 +11	26.46	14.88	+7 + 6
10	8.38	31.60	−3 −10	12.46	21.65	−7 + 5	18.97	15.78	+2 +12	26.70	14.94	+6 + 2
11	8.46	31.23	−6 − 8	12.64	21.39	−4 + 9	19.22	15.67	+5 +11	26.94	15.01	+4 − 2
12	8.54	30.87	−8 − 4	12.83	21.13	−1 +12	19.46	15.56	+6 + 8	27.18	15.08	+2 − 5
13	8.62	30.51	−8 + 2	13.02	20.87	+3 +12	19.70	15.46	+7 + 4	27.42	15.16	−1 − 7
14	8.71	30.16	−6 + 7	13.21	20.62	+5 +10	19.95	15.36	+6 0	27.66	15.24	−4 − 7
15	8.80	29.81	−3 +10	13.41	20.37	+7 + 7	20.20	15.27	+3 − 3	27.89	15.33	−6 − 6
16	8.90	29.46	+1 +12	13.61	20.13	+6 + 2	20.45	15.18	+1 − 6	28.12	15.43	−7 − 3
17	9.00	29.11	+4 +11	13.81	19.89	+5 − 1	20.70	15.10	−2 − 7	28.35	15.53	−7 0
18	9.10	28.76	+6 + 9	14.01	19.66	+2 − 5	20.95	15.03	−5 − 7	28.58	15.64	−5 + 3
19	9.21	28.42	+7 + 5	14.21	19.43	0 − 7	21.20	14.96	−7 − 5	28.81	15.75	−3 + 6
20	9.32	28.08	+6 0	14.42	19.20	−3 − 7	21.45	14.90	−7 − 2	29.04	15.87	0 + 7
21	9.43	27.74	+4 − 3	14.63	18.98	−6 − 6	21.70	14.84	−7 + 1	29.26	16.00	+3 + 8
22	9.55	27.41	+2 − 6	14.84	18.77	−7 − 4	21.95	14.79	−5 + 4	29.48	16.13	+6 + 6
23	9.67	27.08	−1 − 8	15.05	18.56	−7 − 2	22.21	14.75	−2 + 6	29.70	16.26	+8 + 3
24	9.80	26.75	−4 − 8	15.27	18.35	−6 + 2	22.46	14.71	+1 + 7	29.92	16.40	+8 − 2
25	9.93	26.42	−6 − 6	15.49	18.15	−4 + 4	22.71	14.67	+4 + 7	30.13	16.55	+7 − 6
26	10.06	26.10	−7 − 4	15.71	17.96	−1 + 6	22.96	14.64	+7 + 5	30.35	16.70	+3 −10
27	10.20	25.78	−7 − 1	15.93	17.77	+3 + 7	23.22	14.62	+8 + 1	30.56	16.85	0 −12
28	10.34	25.46	−5 + 2	16.15	17.58	+6 + 6	23.47	14.61	+8 − 4	30.77	17.01	−4 −11
29	10.48	25.14	−2 + 5	16.38	17.40	+8 + 3	23.72	14.60	+6 − 8	30.98	17.18	−7 − 8
30	10.63	24.83	+1 + 6	16.61	17.23	+8 − 1	23.98	14.60	+2 −11	31.18	17.35	−8 − 4
31	10.78	24.52	+4 + 6	16.84	17.06	+7 − 6	24.23	14.60	−2 −12	31.38	17.52	−7 + 2
32	10.93	24.22	+7 + 5				24.48	14.61	−5 −10	31.57	17.70	−5 + 7

δ	sec δ	tg δ	δ	sec δ	tg δ
$-85° 7' 10''$	11.754	−11.711	$-85° 7' 30''$	11.767	−11.725
20	11.761	−11.718	40	11.774	−11.731

$\alpha_{1929.0} = 1^h\ 41^m\ 18^s.51$ $\delta_{1929.0} = -85°\ 7'\ 43''.60$

Scheinbare Sternörter 1929

Obere Kulmination Greenwich

Sa) Octantis 4 G. $5^m.63$

Tag	September AR.	September Dekl.	September ☾ Glieder	Oktober AR.	Oktober Dekl.	Oktober ☾ Glieder	November AR.	November Dekl.	November ☾ Glieder	Dezember AR.	Dezember Dekl.	Dezember ☾ Glieder
		—	in		—	in		—	in		—	in
	$1^h 41^m$	85° 7′	0.01ˢ 0.01″	$1^h 41^m$	85° 7′	0.01ˢ 0.01″	$1^h 41^m$	85° 7′	0.01ˢ 0.01″	$1^h 41^m$	85° 7′	0.01ˢ 0.01″
1	31.57	17.70	−5 + 7	35.82	25.07	+4 +10	35.96	34.89	+2 − 6	31.85	42.56	−5 − 6
2	31.76	17.89	−1 +10	35.90	25.37	+7 + 8	35.89	35.19	−1 − 7	31.65	42.75	−7 − 4
3	31.95	18.08	+2 +11	35.98	25.66	+7 + 4	35.81	35.48	−4 − 7	31.45	42.94	−7 − 2
4	32.14	18.28	+5 +10	36.05	25.96	+6 0	35.73	35.78	−6 − 6	31.25	43.12	−6 + 1
5	32.33	18.48	+7 + 7	36.11	26.26	+4 − 4	35.64	36.07	−7 − 4	31.04	43.30	−4 + 4
6	32.51	18.69	+7 + 3	36.17	26.56	+1 − 6	35.55	36.36	−7 − 1	30.83	43.47	−1 + 6
7	32.69	18.90	+5 − 1	36.23	26.86	−2 − 7	35.45	36.65	−6 + 2	30.62	43.64	+2 + 7
8	32.87	19.11	+3 − 4	36.28	27.16	−5 − 7	35.35	36.93	−3 + 5	30.40	43.80	+5 + 6
9	33.04	19.33	0 − 6	36.33	27.47	−6 − 5	35.24	37.21	0 + 7	30.18	43.95	+7 + 4
10	33.21	19.55	−3 − 7	36.37	27.78	−7 − 2	35.13	37.49	+3 + 7	29.96	44.10	+8 0
11	33.37	19.78	−5 − 6	36.41	28.08	−7 + 1	35.01	37.77	+6 + 6	29.74	44.25	+8 − 4
12	33.53	20.01	−7 − 4	36.44	28.39	−5 + 4	34.89	38.04	+8 + 3	29.52	44.39	+6 − 8
13	33.69	20.25	−7 − 1	36.47	28.70	−2 + 6	34.77	38.32	+8 − 1	29.29	44.52	+2 −11
14	33.84	20.49	−6 + 2	36.49	29.01	+1 + 7	34.64	38.59	+7 − 6	29.06	44.65	−2 −12
15	33.99	20.73	−4 + 5	36.50	29.32	+4 + 7	34.51	38.86	+4 − 9	28.82	44.78	−5 −10
16	34.14	20.98	−1 + 7	36.51	29.63	+7 + 5	34.37	39.12	0 −11	28.59	44.90	−7 − 6
17	34.28	21.23	+2 + 8	{36.52 {36.52	29.95 30.26	+8 +2} +8 −2}	34.23	39.38	−3 −11	28.35	45.01	−8 − 1
18	34.42	21.49	+5 + 7	36.52	30.57	+6 − 7	34.08	39.64	−6 − 8	28.11	45.12	−7 + 5
19	34.55	21.75	+7 + 4	36.51	30.89	+3 −10	33.93	39.89	−8 − 4	27.87	45.22	−4 + 9
20	34.68	22.01	+8 0	36.50	31.20	−1 −11	33.78	40.14	−8 + 2	27.63	45.31	0 +12
21	34.81	22.27	+7 − 4	36.48	31.51	−5 −10	33.62	40.38	−5 + 7	27.38	45.40	+4 +12
22	34.93	22.54	+5 − 8	36.46	31.82	−7 − 7	33.46	40.62	−2 +10	27.14	45.48	+6 +10
23	35.05	22.81	+1 −11	36.43	32.13	−8 − 2	33.30	40.85	+2 +12	26.89	45.56	+7 + 6
24	35.16	23.08	−3 −11	36.40	32.44	−7 + 3	33.13	41.08	+5 +11	26.64	45.63	+7 + 1
25	35.27	23.36	−6 − 9	36.36	32.75	−4 + 8	32.96	41.30	+7 + 8	26.39	45.69	+5 − 2
26	35.37	23.64	−8 − 5	36.32	33.06	0 +11	32.78	41.52	+7 + 4	26.14	45.75	+1 − 6
27	35.47	23.92	−8 + 1	36.27	33.37	+3 +11	32.60	41.74	+6 − 1	25.88	45.80	−2 − 7
28	35.57	24.20	−6 + 5	36.22	33.68	+6 + 9	32.42	41.95	+3 − 4	25.63	45.84	−4 − 7
29	35.66	24.49	−3 + 9	36.16	33.98	+7 + 6	32.23	42.16	0 − 7	25.37	45.88	−6 − 5
30	35.74	24.78	+1 +11	36.10	34.29	+7 + 1	32.04	42.36	−3 − 7	25.11	45.91	−7 − 2
31	35.82	25.07	+4 +10	36.03	34.59	+5 − 3	31.85	42.56	−5 − 6	24.86	45.94	−7 + 1
32				35.96	34.89	+2 − 6				24.60	45.96	−5 + 4

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
−85° 7′ 10″	11.754	−11.711	−85° 7′ 30″	11.767	−11.725	−85° 7′ 40″	11.774	−11.731
20	11.761	−11.718	40	11.774	−11.731	50	11.781	−11.738

$\alpha_{1929.0} = 1^h\ 41^m\ 18^s.51 \qquad \delta_{1929.0} = -85°\ 7'\ 43''.60$

Scheinbare Sternörter 1929

Obere Kulmination Greenwich

Sb) ξ Mensae $5^m.85$

Tag	Januar AR.	Januar Dekl.	Januar ☾ Glieder		Februar AR.	Februar Dekl.	Februar ☾ Glieder	
			in				in	
	$5^h\ 7^m$	—82° 34′	$0^s.01$	$0''.01$	$5^h\ 6^m$	—82° 34′	$0^s.01$	$0''.01$
1	$5^s.40$	$10''.19$	−1	+10	$61^s.16$	$17''.18$	+2	0
2	5.30	10.48	+1	+9	60.99	17.33	+2	−4
3	5.20	10.76	+2	+7	60.82	17.48	+1	−7
4	5.10	11.04	+2	+3	60.64	17.62	0	−9
5	4.99	11.31	+2	−1	60.47	17.75	−1	−9
6	4.88	11.58	+2	−5	60.29	17.88	−2	−8
7	4.77	11.85	+1	−8	60.11	18.01	−3	−6
8	4.65	12.11	0	−9	59.94	18.13	−3	−2
9	4.53	12.37	−1	−9	59.76	18.24	−2	+3
10	4.41	12.63	−2	−7	59.58	18.35	−1	+7
11	4.29	12.88	−3	−4	59.40	18.46	0	+9
12	4.16	13.13	−3	0	59.21	18.56	+2	+10
13	4.03	13.38	−2	+4	59.03	18.65	+3	+8
14	3.90	13.62	−1	+8	58.84	18.74	+4	+4
15	3.76	13.86	+1	+10	58.65	18.82	+4	0
16	3.62	14.09	+3	+9	58.47	18.90	+3	−5
17	3.48	14.32	+4	+7	58.28	18.97	+2	−9
18	3.34	14.54	+4	+3	58.09	19.04	0	−11
19	3.20	14.76	+4	−2	57.90	19.10	−2	−10
20	3.06	14.97	+3	−7	57.71	19.16	−3	−7
21	2.91	15.18	+1	−10	57.52	19.21	−4	−2
22	2.76	15.39	−1	−10	57.32	19.26	−4	+3
23	2.61	15.59	−3	−9	57.13	19.30	−3	+7
24	2.46	15.79	−4	−5	56.93	19.33	−1	+10
25	2.30	15.98	−4	0	56.74	19.36	0	+10
26	2.14	16.17	−3	+5	56.55	19.38	+1	+9
27	1.98	16.35	−2	+9	56.35	19.40	+2	+6
28	1.82	16.53	−1	+10	56.16	19.42	+2	+2
29	1.66	16.70	0	+10	55.97	19.43	+2	−2
30	1.50	16.87	+1	+8				
31	1.33	17.03	+2	+4				
32	1.16	17.18	+2	0				

Tag	März AR.	März Dekl.	März ☾ Glieder		April AR.	April Dekl.	April ☾ Glieder	
			in				in	
	$5^h\ 6^m$	—82° 34′	$0^s.01$	$0''.01$	$5^h\ 6^m$	—82° 34′	$0^s.01$	$0''.01$
1	$55^s.97$	$19''.43$	+2	−2	$50^s.03$	$17''.09$	−1	−9
2	55.77	19.43	+2	−6	49.85	16.93	−2	−8
3	55.58	19.43	+1	−8	49.67	16.77	−3	−5
4	55.38	19.42	0	−9	49.49	16.60	−3	−1
5	55.18	19.41	−2	−9	49.31	16.43	−2	+3
6	54.99	19.39	−2	−7	49.14	16.25	−1	+7
7	54.79	19.36	−3	−3	48.97	16.07	+1	+9
8	54.60	19.33	−3	+1	48.80	15.89	+2	+10
9	54.40	19.30	−2	+5	48.63	15.70	+3	+8
10	54.21	19.26	0	+8	48.46	15.51	+4	+4
11	54.01	19.21	+1	+10	48.29	15.32	+4	−1
12	53.82	19.16	+3	+9	48.13	15.12	+3	−6
13	53.62	19.11	+4	+6	47.97	14.92	+1	−9
14	53.43	19.05	+4	+2	47.81	14.71	−1	−10
15	53.24	18.98	+4	−3	47.65	14.50	−3	−9
16	53.05	18.91	+2	−7	47.49	14.28	−4	−6
17	52.85	18.84	0	−10	47.33	14.06	−4	−1
18	52.66	18.76	−1	−10	47.18	13.83	−4	+4
19	52.47	18.67	−3	−8	47.02	13.60	−3	+8
20	52.27	18.58	−4	−4	46.87	13.37	−1	+10
21	52.08	18.48	−4	+1	46.72	13.14	0	+10
22	51.89	18.38	−3	+6	46.57	12.90	+2	+8
23	51.70	18.27	−2	+9	46.43	12.66	+3	+5
24	51.51	18.16	0	+10	46.29	12.41	+3	+1
25	51.32	18.04	+1	+9	46.15	12.16	+2	−3
26	51.13	17.92	+2	+7	46.01	11.91	+1	−7
27	50.94	17.80	+3	+3	45.87	11.65	0	−9
28	50.76	17.67	+3	−1	45.74	11.39	−1	−9
29	50.58	17.53	+2	−5	45.60	11.13	−2	−9
30	50.39	17.39	+1	−8	45.47	10.86	−2	−6
31	50.21	17.24	0	−9	45.34	10.59	−2	−2
32	50.03	17.09	−1	−9				

δ	sec δ	tg δ
—82° 34′ 10″	7.732	—7.668
20	7.735	—7.670

$\alpha_{1929.0} = 5^h\ 6^m\ 53^s.35$ $\delta_{1929.0} = -82°\ 34'\ 4''.94$

Scheinbare Sternörter 1929

Obere Kulmination Greenwich

Sb) ξ Mensae $5^m.85$

Tag	Mai				Juni				Juli				August			
	AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder	
		—	in			—	in			—	in			—	in	
	$5^h\ 6^m$	82° 34′	$0^s.01$	0″.01	$5^h\ 6^m$	82° 33′	$0^s.01$	0″.01	$5^h\ 6^m$	82° 33′	$0^s.01$	0″.01	$5^h\ 6^m$	82° 33′	$0^s.01$	0″.01
	s	″			s	″			s	″			s	″		
1	45.34	10.59	−2	−2	42.58	60.93	+1	+10	42.48	50.69	+5	+4	44.96	41.66	+1	−11
2	45.21	10.32	−2	+2	42.54	60.59	+3	+9	42.52	50.36	+5	0	45.08	41.42	−1	−11
3	45.09	10.04	−1	+6	42.50	60.25	+4	+7	42.56	50.03	+4	−5	45.20	41.19	−3	−9
4	44.97	9.76	0	+9	42.46	59.90	+4	+3	42.61	49.70	+2	−9	45.32	40.97	−4	−4
5	44.85	9.48	+2	+10	42.42	59.56	+4	−2	42.66	49.38	0	−11	45.44	40.75	−4	+1
6	44.73	9.19	+3	+9	42.39	59.22	+3	−7	42.71	49.06	−2	−10	45.57	40.53	−3	+6
7	44.61	8.90	+4	+6	42.36	58.87	+1	−10	42.77	48.74	−3	−7	45.70	40.31	−2	+10
8	44.50	8.61	+4	+1	*)42.33	58.53	−1	−11	42.82	48.42	−4	−2	45.83	40.10	0	+11
9	44.39	8.31	+3	−4	42.30	58.19	−3	−9	42.88	48.11	−4	+3	45.96	39.90	+1	+10
10	44.28	8.01	+2	−8	42.28	57.84	−4	−5	42.94	47.79	−3	+8	46.09	39.70	+2	+7
11	44.18	7.71	0	−10	42.26	57.50	−4	0	43.01	47.48	−2	+10	46.23	39.50	+2	+3
12	44.08	7.41	−2	−10	42.24	57.15	−4	+5	43.08	47.17	0	+11	46.37	39.31	+2	−1
13	43.98	7.11	−3	−7	42.23	56.80	−3	+9	43.15	46.87	+1	+9	46.51	39.13	+1	−5
14	43.88	6.80	−4	−3	42.22	56.46	−1	+11	43.22	46.57	+2	+6	46.65	38.95	0	−8
15	43.78	6.49	−4	+2	42.21	56.11	0	+10	43.30	46.27	+2	+1	46.79	38.78	−1	−9
16	43.69	6.18	−3	+7	42.21	55.77	+1	+8	43.38	45.97	+2	−3	46.94	38.61	−2	−9
17	43.60	5.86	−2	+10	42.21	55.43	+2	+4	43.46	45.67	+1	−6	47.08	38.44	−2	−7
18	43.52	5.54	0	+11	42.21	55.08	+2	0	43.54	45.38	0	−8	47.22	38.28	−3	−4
19	43.43	5.22	+1	+9	42.21	54.74	+2	−4	43.62	45.09	−1	−9	47.37	38.13	−3	0
20	43.35	4.90	+2	+6	42.22	54.40	+1	−7	43.71	44.80	−2	−9	47.52	37.98	−2	+4
21	43.27	4.58	+2	+2	42.23	54.05	0	−9	43.80	44.52	−3	−6	47.67	37.84	−1	+8
22	43.19	4.26	+2	−2	42.24	53.71	−1	−9	43.90	44.24	−3	−3	47.82	37.70	+1	+10
23	43.12	3.93	+2	−6	42.25	53.37	−2	−8	44.00	43.97	−2	+1	47.97	37.57	+2	+10
24	43.05	3.60	+1	−8	42.27	53.03	−3	−5	44.10	43.70	−1	+5	48.12	37.45	+3	+8
25	42.98	3.27	0	−9	42.29	52.69	−3	−1	44.20	43.43	0	+8	48.28	37.33	+4	+4
26	42.92	2.94	−1	−9	42.32	52.36	−2	+3	44.30	43.17	+2	+10	48.43	37.22	+4	−1
27	42.86	2.61	−2	−7	42.35	52.02	−1	+6	44.41	42.91	+3	+9	48.59	37.11	+3	−6
28	42.80	2.27	−2	−4	42.38	51.69	+1	+9	44.51	42.65	+4	+6	48.74	37.01	+2	−10
29	42.74	1.94	−2	0	42.41	51.35	+2	+10	44.62	42.40	+5	+2	48.90	36.91	0	−11
30	42.68	1.61	−1	+4	42.44	51.02	+4	+8	44.73	42.15	+4	−4	49.06	36.82	−2	−10
31	42.63	1.27	0	+8	42.48	50.69	+5	+4	44.84	41.90	+3	−8	49.22	36.74	−3	−6
32	42.58	0.93	+1	+10					44.96	41.66	+1	−11	49.38	36.66	−4	−1

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
−82° 33′ 30″	7.721	−7.656	−82° 33′ 50″	7.727	−7.662	−82° 34′ 0″	7.730	−7.665
40	7.724	−7.659	60	7.730	−7.665	10	7.732	−7.668

$\alpha_{1929.0} = 5^h\ 6^m\ 53^s.35$ $\delta_{1929.0} = -82°\ 34'\ 4''.94$

*) Tag der doppelten unteren Kulmination: Juni 8

Sb) ξ Mensae $5^m.85$

Tag	September				Oktober				November				Dezember			
	AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder	
	$5^h\ 6^m$	$-82°33'$	in $0^s.01$	in $0''.01$	$5^h\ 6^m$	$-82°33'$	in $0^s.01$	in $0''.01$	$5^h\ 6^m$	$-82°33'$	in $0^s.01$	in $0''.01$	$5^h\ 6^m$	$-82°33'$	in $0^s.01$	in $0''.01$
1	$49^s.38$	$36''.66$	−4	−1	$54^s.23$	$37''.22$	−1	+10	$58^s.25$	$43''.31$	+3	+4	$59^s.80$	$52''.66$	+1	−7
2	49.54	36.59	−3	+4	54.39	37.33	0	+11	58.34	43.58	+3	−1	59.80	52.99	0	−9
3	49.71	36.53	−2	+8	54.54	37.45	+1	+9	58.43	43.86	+2	−5	59.80	53.33	−1	−9
4	49.87	36.47	−1	+10	54.69	37.58	+2	+6	58.52	44.14	+1	−8	59.80	53.67	−2	−8
5	50.03	36.42	+1	+10	54.84	37.71	+3	+2	58.61	44.42	0	−9	59.79	54.00	−3	−6
6	50.19	36.37	+2	+8	54.99	37.85	+2	−2	58.70	44.71	−2	−9	59.78	54.34	−3	−2
7	50.36	36.33	+2	+5	55.14	37.99	+1	−6	58.78	45.00	−3	−7	59.77	54.68	−2	+2
8	50.52	36.29	+2	0	55.29	38.14	0	−8	58.86	45.29	−3	−4	59.75 59.73	55.01 55.35	−1 0	+6 +8
9	50.69	36.26	+2	−4	55.43	38.30	−1	−9	58.93	45.59	−3	−1	59.71	55.69	+2	+9
10	50.85	36.24	+1	−7	55.58	38.46	−2	−9	59.00	45.89	−2	+4	59.68	56.02	+3	+9
11	51.02	36.23	0	−9	55.72	38.63	−3	−6	59.07	46.19	−1	+7	59.65	56.35	+4	+6
12	51.18	36.22	−1	−9	55.86	38.80	−3	−3	59.13	46.49	0	+9	59.62	56.68	+5	+1
13	51.35	36.22	−2	−8	56.00	38.98	−3	+1	59.19	46.80	+2	+10	59.58	57.01	+4	−3
14	51.51	36.22	−3	−5	56.14	39.16	−2	+5	59.25	47.11	+3	+8	59.54	57.34	+3	−8
15	51.67	36.23	−3	−2	56.27	39.35	−1	+8	59.31	47.42	+4	+4	59.50	57.67	+1	−11
16	51.84	36.24	−2	+3	56.41	39.54	+1	+10	59.37	47.74	+4	0	59.45	58.00	−1	−11
17	52.00	36.26	−1	+6	56.54	39.74	+3	+9	59.42	48.06	+3	−5	59.40	58.33	−3	−9
18	52.16	36.29	0	+9	56.67	39.95	+4	+7	59.47	48.38	+2	−9	59.34	58.65	−4	−4
19	52.33	36.32	+2	+10	56.80	40.16	+4	+3	59.51	48.70	0	−11	59.28	58.97	−4	+1
20	52.49	36.36	+3	+9	56.92	40.37	+4	−2	59.55	49.02	−2	−10	59.22	59.29	−3	+6
21	52.66	36.41	+4	+5	57.04	40.59	+3	−7	59.59	49.35	−3	−7	59.16	59.61	−2	+10
22	52.82	36.46	+4	+1	57.16	40.82	+1	−10	59.63	49.68	−4	−2	59.09	59.92	−1	+11
23	52.98	36.52	+3	−4	57.28	41.05	−1	−11	59.66	50.00	−4	+3	59.02	60.24	+1	+10
24	53.14	36.59	+2	−8	57.40	41.28	−2	−9	59.69	50.33	−3	+8	58.95	60.55	+2	+7
25	53.30	36.66	0	−11	57.52	41.52	−4	−5	59.72	50.66	−1	+10	58.87	60.86	+2	+3
26	53.46	36.74	−1	−11	57.63	41.76	−4	0	59.74	50.99	0	+11	58.79	61.17	+2	−2
27	53.61	36.82	−3	−8	57.74	42.01	−3	+5	59.76	51.32	+1	+9	58.71	61.48	+1	−6
28	53.77	36.91	−4	−3	57.85	42.26	−2	+9	59.77	51.65	+2	+6	58.63	61.78	0	−8
29	53.93	37.01	−4	+2	57.95	42.52	0	+11	59.78	51.99	+3	+1	58.54	62.08	−1	−10
30	54.08	37.11	−3	+7	58.05	42.78	+1	+10	59.79	52.32	+2	−3	58.45	62.38	−2	−9
31	54.23	37.22	−1	+10	58.15	43.04	+2	+8	59.80	52.66	+1	−7	58.36	62.67	−3	−7
32					58.25	43.31	+3	+4					58.26	62.96	−3	−4

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
−82° 33′ 30″	7.721	−7.656	−82° 33′ 50″	7.727	−7.662	−82° 33′ 60″	7.730	−7.665
40	7.724	−7.659	60	7.730	−7.665	70	7.732	−7.668

$\alpha_{1929.0} = 5^h\ 6^m\ 53^s.35 \qquad \delta_{1929.0} = -82°\ 34'\ 4''.94$

Scheinbare Sternörter 1929

Obere Kulmination Greenwich

Sc) ζ Octantis $5^{m}.38$

Tag	Januar				Februar				März				April			
	AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder	
		—	in			—	in			—	in			—	in	
	$9^{h}\ 7^{m}$	85° 22′	$0^{s}.01$	$0''.01$	$9^{h}\ 7^{m}$	85° 22′	$0^{s}.01$	$0''.01$	$9^{h}\ 7^{m}$	85° 22′	$0^{s}.01$	$0''.01$	$9^{h}\ 7^{m}$	85° 23′	$0^{s}.01$	$0''.01$
1	33.14	33.42	−8	0	34.64	44.62	−1	+7	31.91	55.26	+3	+4	25.45	4.36	+6	−7
2	33.26	33.75	−7	+3	34.61	45.00	+2	+5	31.75	55.60	+5	+1	25.20	4.59	+4	−8
3	33.38	34.08	−6	+6	34.57	45.38	+4	+3	31.59	55.94	+6	−3	24.94	4.82	+1	−8
4	33.49	34.42	−3	+7	34.53	45.76	+6	0	31.42	56.28	+6	−5	24.68	5.04	−2	−6
5	33.59	34.76	0	+7	34.49	46.13	+6	−3	31.25	56.61	+5	−7	24.42	5.26	−4	−3
6	33.69	35.10	+3	+5	34.44	46.51	+6	−6	31.08	56.94	+3	−8	24.16	5.48	−6	+2
7	33.79	35.44	+5	+2	34.38 34.32	46.89 47.27	+4 +2	−8 −8	30.90	57.27	0	−7	23.90	5.69	−6	+6
8	33.88	35.78	+6	−1	34.26	47.64	−1	−7	30.72	57.59	−3	−5	23.64	5.90	−5	+10
9	33.97	36.13	+6	−4	34.19	48.02	−4	−4	30.54	57.91	−5	−1	23.37	6.10	−3	+11
10	34.05	36.48	+5	−7	34.12	48.39	−6	0	30.35	58.23	−6	+3	23.10	6.30	+1	+11
11	34.13	36.84	+3	−8	34.04	48.77	−7	+5	30.16	58.55	−6	+7	22.83	6.49	+4	+8
12	34.20	37.19	+1	−8	33.96	49.14	−5	+9	29.96	58.86	−4	+10	22.56	6.68	+6	+3
13	34.27	37.55	−2	−6	33.87	49.51	−3	+11	29.76	59.17	−1	+11	22.28	6.87	+7	−2
14	34.34	37.91	−4	−2	33.78	49.88	0	+11	29.56	59.48	+2	+10	22.01	7.05	+6	−7
15	34.40	38.27	−6	+2	33.68	50.25	+3	+9	29.36	59.78	+5	+6	21.73	7.22	+4	−10
16	34.45	38.64	−6	+7	33.58	50.62	+6	+5	29.15	60.08	+7	+1	21.46	7.39	+1	−11
17	34.50	39.00	−4	+10	33.48	50.99	+8	0	28.94	60.38	+7	−4	21.18	7.55	−3	−10
18	34.54	39.37	−2	+12	33.37	51.35	+7	−5	28.73	60.67	+6	−8	20.90	7.71	−6	−6
19	34.58	39.74	+2	+11	33.26	51.72	+5	−9	28.51	60.96	+3	−10	20.62	7.86	−8	−2
20	34.61	40.11	+5	+8	33.14	52.08	+2	−10	28.29	61.24	−1	−11	20.34	8.01	−8	+2
21	34.64	40.48	+7	+3	33.02	52.44	−2	−10	28.07	61.52	−4	−8	20.06	8.15	−6	+6
22	34.66	40.85	+8	−2	32.89	52.80	−5	−7	27.85	61.80	−7	−4	19.78	8.29	−4	+8
23	34.68	41.22	+7	−7	32.76	53.16	−7	−3	27.62	62.07	−8	0	19.49	8.42	−1	+8
24	34.70	41.60	+4	−10	32.63	53.51	−8	+1	27.39	62.34	−7	+4	19.21	8.55	+2	+6
25	34.71	41.97	0	−12	32.49	53.87	−7	+5	27.16	62.60	−6	+7	18.92	8.67	+4	+4
26	34.71	42.35	−4	−9	32.35	54.22	−5	+7	26.92	62.86	−3	+8	18.64	8.79	+6	0
27	34.71	42.72	−6	−6	32.21	54.57	−2	+7	26.68	63.12	0	+7	18.35	8.90	+7	−3
28	34.71	43.10	−8	−2	32.06	54.92	+1	+6	26.44	63.38	+3	+5	18.06	9.01	+6	−6
29	34.70	43.48	−8	+3	31.91	55.26	+3	+4	26.20	63.63	+5	+3	17.77	9.11	+4	−8
30	34.68	43.86	−6	+6					25.95	63.88	+6	−1	17.48	9.21	+2	−8
31	34.66	44.24	−4	+7					25.70	64.12	+6	−4	17.19	9.30	0	−7
32	34.64	44.62	−1	+7					25.45	64.36	+6	−7				

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
−85° 22′ 30″	12.402	−12.361	−85° 22′ 50″	12.417	−12.376	−85° 23′ 0″	12.424	−12.384
40	12.409	−12.369	60	12.424	−12.384	10	12.432	−12.391

$\alpha_{1929.0} = 9^{h}\ 7^{m}\ 20^{s}.08$ $\delta_{1929.0} = -85°\ 22'\ 52''.73$

Scheinbare Sternörter 1929

Obere Kulmination Greenwich

Sc) ζ Octantis $5^m.38$

Tag	Mai AR.	Mai Dekl.	Mai ☾ Glieder		Juni AR.	Juni Dekl.	Juni ☾ Glieder		Juli AR.	Juli Dekl.	Juli ☾ Glieder		August AR.	August Dekl.	August ☾ Glieder	
	$9^h 7^m$	−85° 23′	in 0.01^s	$0.01''$	$9^h 7^m$	−85° 23′	in 0.01^s	$0.01''$	$9^h 6^m$	−85° 22′	in 0.01^s	$0.01''$	$9^h 6^m$	−85° 22′	in 0.01^s	$0.01''$
1	$17^s.19$	$9''.30$	0	−7	$8^s.36$	$9''.53$	−6	+7	$61^s.31$	$65''.09$	+1	+12	$57^s.21$	$56''.87$	+8	−3
2	16.90	9.39	−3	−4	8.09	9.45	−4	+11	61.12	64.87	+4	+10	57.15	56.57	+7	−7
3	16.61	9.47	−5	0	7.82	9.37	−2	+12	60.93	64.65	+7	+6	57.09	56.27	+4	−10
4	16.32	9.55	−6	+4	7.56	9.28	+2	+11	60.75	64.42	+8	0	57.03	55.97	0	−10
5	16.03	9.62	−5	+8	7.29	9.19	+5	+8	60.57	64.19	+8	−5	56.98	55.66	−4	−8
6	15.74	9.69	−3	+11	7.03	9.09	+7	+3	60.39	63.96	+5	−9	56.94	55.35	−7	−5
7	15.45	9.75	0	+12	6.77	8.99	+8	−2	60.22	63.72	+2	−11	56.90	55.05	−8	0
8	15.16	9.80	+3	+10	6.51	8.88	+6	−7	60.05	63.48	−2	−10	*)56.86	54.74	−8	+4
9	14.87	9.85	+6	+6	6.26	8.77	+3	−11	59.88	63.24	−5	−8	56.83	54.43	−6	+6
10	14.58	9.90	+7	0	6.00	8.65	0	−11	59.72	62.99	−8	−3	56.80	54.12	−3	+7
11	14.29	9.94	+7	−5	5.75	8.53	−4	−10	59.56	62.74	−8	+1	56.78	53.81	0	+6
12	14.00	9.97	+5	−9	5.50	8.40	−7	−6	59.40	62.49	−7	+5	56.76	53.50	+3	+4
13	13.71	10.00	+2	−11	5.26	8.27	−8	−2	59.25	62.23	−5	+7	56.75	53.18	+5	+1
14	13.42	10.02	−2	−11	5.02	8.13	−8	+3	59.10	61.97	−2	+7	56.74	52.87	+6	−3
15	13.13	10.04	−5	−8	4.78	7.99	−7	+6	58.96	61.71	+1	+6	56.74	52.56	+6	−6
16	12.84	10.05	−7	−4	4.54	7.84	−4	+7	58.82	61.45	+4	+3	56.74	52.25	+5	−8
17	12.55	10.06	−8	0	4.30	7.69	−1	+7	58.69	61.18	+6	0	56.75	51.94	+3	−9
18	12.27	10.06	−7	+4	4.07	7.53	+2	+5	58.56	60.91	+6	−3	56.76	51.63	0	−8
19	11.98	10.06	−5	+7	3.84	7.37	+5	+2	58.44	60.64	+6	−6	56.78	51.32	−2	−6
20	11.69	10.05	−3	+8	3.61	7.20	+6	−1	58.32	60.36	+4	−8	56.80	51.01	−5	−3
21	11.40	10.03	0	+7	3.39	7.03	+6	−4	58.20	60.08	+2	−9	56.82	50.70	−6	+1
22	11.12	10.01	+3	+4	3.17	6.86	+6	−7	58.09	59.80	−1	−8	56.85	50.39	−6	+6
23	10.84	9.99	+5	+1	2.95	6.68	+4	−8	57.98	59.52	−3	−5	56.89	50.08	−5	+10
24	10.56	9.96	+6	−2	2.73	6.49	+1	−8	57.88	59.23	−5	−1	56.93	49.77	−2	+12
25	10.28	9.92	+6	−5	2.52	6.30	−1	−6	57.78	58.94	−6	+4	56.98	49.47	+1	+12
26	10.00	9.88	+5	−7	2.31	6.11	−4	−3	57.68	58.65	−6	+8	57.03	49.17	+5	+9
27	9.73	9.84	+3	−8	2.10	5.92	−5	+1	57.59	58.36	−4	+11	57.09	48.86	+7	+5
28	9.45	9.79	0	−7	1.90	5.72	−6	+6	57.50	58.07	−1	+12	57.15	48.56	+8	0
29	9.17	9.73	−2	−5	1.70	5.51	−5	+10	57.42	57.77	+3	+11	57.22	48.26	+7	−5
30	8.90	9.67	−4	−1	1.50	5.30	−3	+12	57.34	57.47	+6	+8	57.29	47.96	+5	−9
31	8.63	9.60	−6	+3	1.31	5.09	+1	+12	57.27	57.17	+8	+3	57.37	47.66	+1	−10
32	8.36	9.53	−6	+7					57.21	56.87	+8	−3	57.45	47.37	−2	−9

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
−85° 22′ 40″	12.409	−12.369	−85° 23′ 0″	12.424	−12.384	−85° 23′ 10″	12.432	−12.391
50	12.417	−12.376	10	12.432	−12.391	20	12.439	−12.399

$\alpha_{1929.0} = 9^h\ 7^m\ 20^s.08$ $\delta_{1929.0} = -85°\ 22'\ 52''.73$

*) Tag der doppelten unteren Kulmination: Aug. 8

Scheinbare Sternörter 1929

Obere Kulmination Greenwich

Sc) ζ Octantis $5^{m}.38$

Tag	September AR.	September Dekl.	☾ Glieder		Oktober AR.	Oktober Dekl.	☾ Glieder		November AR.	November Dekl.	☾ Glieder		Dezember AR.	Dezember Dekl.	☾ Glieder	
		—	in			—	in			—	in			—	in	
	$9^h 6^m$	85° 22′	0.01 s	0.01″	$9^h 7^m$	85° 22′	0.01 s	0.01″	$9^h 7^m$	85° 22′	0.01 s	0.01″	$9^h 7^m$	85° 22′	0.01 s	0.01″
1	57.45	47.37	−2	−9	1.84	39.85	−8	+1	9.35	36.64	0	+8	17.09	39.33	+6	−1
2	57.53	47.07	−5	−6	2.05	39.66	−7	+5	9.62	36.63	+3	+5	17.32	39.52	+6	−4
3	57.62	46.78	−8	−1	2.26	39.48	−5	+8	9.88	36.63	+5	+2	17.55	39.71	+6	−7
4	57.71	46.49	−8	+3	2.47	39.30	−2	+8	10.15	36.64	+6	−2	17.78	39.91	+4	−9
5	57.81	46.20	−7	+6	2.69	39.13	+1	+7	10.41	36.66	+6	−5	18.01	40.11	+2	−9
6	57.91	45.91	−4	+8	2.91	38.96	+3	+4	10.68	36.68	+5	−8	18.23	40.32	−1	−7
7	58.02	45.63	−1	+7	3.13	38.80	+5	0	10.95	36.71	+3	−9	18.45	40.54	−3	−4
8	58.13	45.35	+2	+5	3.35	38.64	+6	−3	11.21	36.74	+1	−8	18.67	40.76	−5	0
9	58.25	45.07	+4	+2	3.58	38.49	+6	−6	11.48	36.78	−2	−6	18.88	40.98	−6	+4
10	58.37	44.80	+6	−1	3.81	38.34	+4	−8	11.74	36.83	−4	−3	19.09	41.21	−5	+8
11	58.49	44.53	+6	−5	4.04	38.20	+2	−9	12.01	36.89	−6	+1	19.30	41.45	−4	+11
12	58.62	44.26	+5	−7	4.27	38.07	0	−8	12.27	36.95	−6	+5	19.51	41.69	−1	+12
13	58.75	43.99	+4	−9	4.51	37.94	−3	−5	12.54	37.02	−5	+9	19.71	41.94	+3	+11
14	58.89	43.73	+1	−9	4.75	37.82	−5	−2	12.80	37.09	−3	+12	19.91	42.19	+6	+8
15	59.03	43.47	−1	−7	4.99	37.70	−6	+3	13.07	37.17	0	+12	20.10	42.45	+8	+3
16	59.18	43.21	−4	−4	5.23	37.59	−6	+7	13.33	37.26	+4	+10	20.29	42.71	+8	−3
17	59.33	42.96	−6	0	5.48	37.48	−4	+10	13.60	37.36	+7	+5	20.48	42.98	+7	−8
18	59.49	42.71	−6	+4	5.72	37.38	−2	+12	13.86	37.46	+8	0	20.67	43.25	+4	−10
19	59.65	42.46	−6	+8	5.97	37.29	+2	+11	14.11	37.57	+7	−5	20.85	43.53	0	−11
20	59.81	42.22	−4	+11	6.23	37.20	+5	+8	14.37	37.68	+5	−9	21.02	43.81	−4	−9
21	59.98	41.98	0	+12	6.48	37.12	+7	+3	14.63	37.80	+2	−11	21.19	44.09	−7	−5
22	60.15	41.75	+3	+10	6.73	37.05	+8	−2	14.88	37.92	−2	−10	21.36	44.38	−8	0
23	60.32	41.52	+6	+6	6.99	36.98	+7	−7	15.13	38.05	−5	−7	21.53	44.67	−8	+4
24	60.50	41.30	+8	+1	7.25	36.92	+4	−10	15.39	38.19	−8	−3	21.69	44.97	−6	+7
25	60.68	41.08	+8	−4	7.50	36.86	0	−11	15.64	38.33	−8	+2	21.84	45.27	−3	+8
26	60.86	40.86	+6	−8	7.76	36.81	−3	−9	15.88	38.48	−7	+6	21.99	45.58	0	+7
27	61.05	40.65	+3	−10	8.03	36.76	−6	−5	16.13	38.64	−5	+8	22.14	45.89	+3	+4
28	61.24	40.44	−1	−10	8.29	36.72	−8	−1	16.37	38.80	−2	+8	22.28	46.20	+5	0
29	61.44	40.24	−4	−7	8.56	36.69	−8	+4	16.61	38.97	+1	+6	22.42	46.52	+6	−3
30	61.64	40.04	−7	−3	8.82	36.67	−6	+7	16.85	39.15	+4	+3	22.56	46.84	+6	−6
31	61.84	39.85	−8	+1	9.09	36.65	−3	+8	17.09	39.33	+6	−1	22.69	47.16	+4	−9
32					9.35	36.64	0	+8					22.81	47.49	+2	−9

δ	sec δ	tg δ	δ	sec δ	tg δ
−85° 22′ 30″	12.402	−12.361	−85° 22′ 40″	12.409	−12.369
40	12.409	−12.369	50	12.417	−12.376

$\alpha_{1929.0} = 9^h\ 7^m\ 20^s.08$ $\delta_{1929.0} = -85°\ 22'\ 52''.73$

Sd) ι Octantis $5^m.38$

Tag	Januar AR.	Januar Dekl.	Januar ☾ Glieder	Februar AR.	Februar Dekl.	Februar ☾ Glieder	März AR.	März Dekl.	März ☾ Glieder	April AR.	April Dekl.	April ☾ Glieder
	$12^h 47^m$	—84° 43′	in 0.01^s $0.01''$	$12^h 47^m$	—84° 43′	in 0.01^s $0.01''$	$12^h 47^m$	—84° 44′	in 0.01^s $0.01''$	$12^h 47^m$	—84° 44′	in 0.01^s $0.01''$
1	14.42^s	$52.97''$	−4 − 9	21.81^s	$58.48''$	−5 + 4	26.65^s	$7.26''$	−3 + 6	29.03^s	$19.01''$	+6 + 4
2	14.67	53.06	−6 − 5	22.02	58.74	−2 + 6	26.78	7.62	−1 + 7	29.05	19.40	+7 + 1
3	14.92	53.16	−6 − 1	22.23	59.01	0 + 7	26.91	7.98	+2 + 7	29.07	19.78	+7 − 2
4	15.18	53.26	−6 + 2	22.43	59.28	+3 + 6	27.03	8.34	+5 + 5	29.08 / 29.09	20.17 / 20.55	+5 − 4 / +3 − 6
5	15.44	53.37	−4 + 5	22.63	59.55	+5 + 5	27.15	8.71	+6 + 3	29.10	20.94	−1 − 7
6	15.69	53.49	−1 + 7	22.83	59.83	+7 + 2	27.26	9.07	+7 0	29.10	21.32	−4 − 5
7	15.94	53.61	+1 + 7	23.03	60.11	+7 − 1	27.37	9.44	+6 − 3	29.10	21.71	−7 − 2
8	16.19	53.74	+4 + 6	23.23	60.40	+6 − 4	27.48	9.81	+4 − 6	29.09	22.09	−8 + 1
9	16.44	53.87	+6 + 4	23.42	60.69	+4 − 6	27.59	10.18	+2 − 7	29.08	22.48	−8 + 5
10	16.69	54.01	+7 + 1	23.61	60.99	0 − 7	27.69	10.55	−2 − 7	29.07	22.86	−6 + 9
11	16.94	54.15	+7 − 2	23.80	61.29	−3 − 6	27.79	10.93	−5 − 5	29.06	23.24	−3 +10
12	17.19	54.30	+5 − 5	23.98	61.59	−6 − 3	27.88	11.31	−8 − 1	29.04	23.62	+1 + 9
13	17.43	54.46	+2 − 6	24.16	61.90	−8 0	27.97	11.68	−9 + 3	29.02	24.00	+5 + 6
14	17.67	54.63	−1 − 7	24.34	62.21	−9 + 5	28.06	12.06	−8 + 7	28.99	24.37	+8 + 2
15	17.92	54.80	−5 − 5	24.52	62.53	−7 + 9	28.14	12.44	−5 +10	28.96	24.74	+8 − 3
16	18.16	54.97	−7 − 1	24.69	62.85	−4 +11	28.22	12.82	−1 +10	28.93	25.12	+7 − 8
17	18.40	55.15	−9 + 3	24.86	63.17	0 +11	28.30	13.21	+3 + 9	28.89	25.49	+5 −10
18	18.64	55.34	−8 + 7	25.03	63.49	+4 + 8	28.37	13.59	+6 + 5	28.85	25.86	+1 −11
19	18.88	55.53	−6 +10	25.19	63.82	+7 + 4	28.44	13.97	+8 0	28.81	26.23	−2 −10
20	19.11	55.72	−2 +11	25.35	64.15	+8 − 1	28.51	14.36	+8 − 4	28.76	26.60	−5 − 7
21	19.35	55.92	+2 +10	25.51	64.48	+7 − 6	28.57	14.74	+6 − 8	28.71	26.97	−7 − 3
22	19.58	56.13	+5 + 6	25.66	64.82	+5 − 9	28.63	15.13	+3 −11	28.66	27.33	−7 + 1
23	19.81	56.34	+7 + 1	25.81	65.16	+2 −11	28.69	15.52	0 −11	28.61	27.69	−5 + 4
24	20.04	56.56	+8 − 4	25.96	65.50	−2 −10	28.74	15.91	−4 − 9	28.55	28.05	−3 + 7
25	20.27	56.78	+7 − 8	26.11	65.85	−5 − 7	28.79	16.29	−6 − 5	28.49	28.40	0 + 7
26	20.49	57.01	+4 −11	26.25	66.20	−6 − 4	28.83	16.68	−7 − 1	28.42	28.76	+3 + 7
27	20.72	57.24	0 −11	26.39	66.55	−7 0	28.87	17.07	−6 + 3	28.35	29.11	+5 + 5
28	20.94	57.48	−3 −10	26.52	66.90	−6 + 3	28.91	17.46	−4 + 5	28.28	29.46	+6 + 2
29	21.16	57.72	−5 − 7	26.65	67.26	−3 + 6	28.95	17.85	−2 + 7	28.20	29.81	+7 − 1
30	21.38	57.97	−6 − 3				28.98	18.23	+1 + 7	28.12	30.16	+6 − 3
31	21.59	58.22	−6 + 1				29.01	18.62	+4 + 6	28.04	30.50	+4 − 5
32	21.81	58.48	−5 + 4				29.03	19.01	+6 + 4			

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
−84° 43′ 50″	10.889	−10.843	−84° 44′ 10″	10.900	−10.854	−84° 44′ 30″	10.911	−10.866
60	10.894	−10.848	20	10.906	−10.860	40	10.917	−10.871

$\alpha_{1929.0} = 12^h\ 47^m\ 19^s.77$ $\delta_{1929.0} = -84°\ 44'\ 17''.69$

Scheinbare Sternörter 1929

Obere Kulmination Greenwich

Sd) ι Octantis $5^{m}.38$

Tag	Mai AR.	Mai Dekl.	Mai ☾ Glieder	Juni AR.	Juni Dekl.	Juni ☾ Glieder	Juli AR.	Juli Dekl.	Juli ☾ Glieder	August AR.	August Dekl.	August ☾ Glieder
	$12^{h}\ 47^{m}$	−84° 44′	in 0.01 s, 0.01″	$12^{h}\ 47^{m}$	−84° 44′	in 0.01 s, 0.01″	$12^{h}\ 47^{m}$	−84° 44′	in 0.01 s, 0.01″	$12^{h}\ 47^{m}$	−84° 44′	in 0.01 s, 0.01″
1	28.04	30.50	+4 −5	24.04	39.44	−8 −1	18.18	43.98	−7 +10	11.55	43.46	+6 +7
2	27.95	30.84	+1 −6	23.86	39.66	−9 +3	17.97	44.05	−4 +12	11.35	43.35	+8 +2
3	27.86	31.18	−3 −6	23.69	39.88	−8 +7	17.75	44.11	0 +11	11.15	43.24	+8 −4
4	27.77	31.51	−6 −3	23.52	40.10	−6 +10	17.54	44.17	+4 +9	10.95	43.12	+6 −8
5	27.67	31.84	−8 0	23.34	40.31	−3 +11	17.32	44.22	+7 +4	10.75	43.00	+3 −11
6	27.58	32.17	−9 +4	23.16	40.52	+2 +10	17.11	44.27	+8 −1	10.55	42.87	0 −11
7	27.48	32.49	−8 +8	22.99	40.72	+5 +6	16.89	44.31	+8 −6	10.36	42.74	−4 −9
8	27.38	32.81	−5 +10	22.81	40.92	+8 +1	16.68	44.34	+5 −10	10.17	42.60	−6 −6
9	27.27	33.13	−1 +10	22.62	41.11	+8 −4	16.46	44.37	+2 −12	9.98	42.46	−7 −2
10	27.16	33.45	+3 +8	22.44	41.30	+7 −9	16.24	44.39	−2 −11	9.79	42.31	−6 +2
11	27.05	33.76	+7 +4	22.25	41.48	+4 −11	16.02	44.41	−5 −8	9.61	42.16	−4 +5
12	26.93	34.07	+8 −1	22.06	41.65	+1 −12	15.81	44.42	−6 −4	9.42	42.00	−1 +6
13	26.81	34.37	+8 −6	21.87	41.82	−3 −10	15.59	44.43	−7 0	9.24	41.84	+2 +6
14	26.69	34.67	+6 −10	21.67	41.99	−5 −7	15.37	44.43	−5 +3	9.06	41.67	+5 +5
15	26.56	34.97	+3 −12	21.48	42.15	−7 −3	15.15	44.42	−3 +5	8.88	41.50	+6 +2
16	26.44	35.27	−1 −11	21.28	42.30	−6 +1	14.94	44.41	0 +6	8.71	41.32	+7 −1
17	26.31	35.56	−4 −9	21.08	42.45	−5 +4	14.72	44.39	+3 +6	8.53	41.14	+7 −4
18	26.18	35.85	−6 −5	20.88	42.60	−2 +6	14.51	44.37	+5 +4	8.36	40.95	+5 −6
19	26.04	36.13	−7 −1	20.68	42.74	+1 +7	14.29	44.34	+7 +2	8.19	40.76	+3 −7
20	25.90	36.41	−6 +3	20.48	42.87	+4 +6	14.07	44.31	+7 −1	8.02	40.57	−1 −7
21	25.76	36.69	−4 +6	20.27	43.00	+6 +4	13.86	44.27	+6 −4	7.86	40.37	−4 −5
22	25.62	36.96	−1 +7	20.07	43.12	+7 +1	13.64	44.22	+4 −6	7.70	40.16	−7 −2
23	25.47	37.23	+2 +7	19.87	43.24	+7 −2	13.43	44.17	+1 −7	7.54	39.95	−9 +2
24	25.32	37.49	+5 +5	19.66	43.35	+6 −4	13.22	44.11	−2 −6	7.38	39.74	−9 +6
25	25.17	37.75	+6 +3	19.45	43.46	+3 −6	13.00	44.05	−5 −4	7.23	39.53	−7 +10
26	25.01	38.00	+7 0	19.24	43.56	0 −6	12.79	43.98	−8 0	7.08	39.31	−3 +12
27	24.85	38.25	+6 −3	19.03	43.65	−4 −5	12.58	43.91	−9 +4	6.93	39.08	+1 +11
28	24.69	38.50	+5 −5	18.82	43.74	−7 −2	12.37	43.83	−8 +8	6.79	38.85	+4 +9
29	24.53	38.74	+2 −6	18.61	43.83	−9 +2	12.17	43.74	−6 +11	6.65	38.62	+7 +4
30	24.37	38.98	−1 −6	18.40	43.91	−9 +6	11.96	43.65	−2 +12	6.52	38.38	+8 −1
31	24.21	39.21	−5 −4	18.18	43.98	−7 +10	11.75	43.56	+2 +11	6.39	38.14	+7 −6
32	24.04	39.44	−8 −1				11.55	43.46	+6 +7	6.26	37.90	+4 −9

δ	sec δ	tg δ	δ	sec δ	tg δ
−84° 44′ 30″	10.911	−10.866	−84° 44′ 40″	10.917	−10.871
40	10.917	−10.871	50	10.923	−10.877

$\alpha_{1929.0} = 12^{h}\ 47^{m}\ 19^{s}.77$ $\delta_{1929.0} = -84°\ 44'\ 17''.69$

Scheinbare Sternörter 1929

Obere Kulmination Greenwich

Sd) ι Octantis $5^m.38$

Tag	September AR.	September Dekl.	September ☾ Glieder	Oktober AR.	Oktober Dekl.	Oktober ☾ Glieder	November AR.	November Dekl.	November ☾ Glieder	Dezember AR.	Dezember Dekl.	Dezember ☾ Glieder
	$12^h 47^m$	$-84° 44'$	in 0.01^s $0.01''$	$12^h 47^m$	$-84° 44'$	in 0.01^s $0.01''$	$12^h 47^m$	$-84° 44'$	in 0.01^s $0.01''$	$12^h 47^m$	$-84° 44'$	in 0.01^s $0.01''$
1	6.26^s	$37.90''$	+4 −9	4.13^s	$29.41''$	−5 −8	6.05^s	$20.48''$	−4 +5	11.56^s	$14.88''$	+3 +6
2	6.13	37.65	+1 −10	4.12	29.11	−7 −4	6.18	20.23	−2 +7	11.79	14.77	+6 +4
3	6.01	37.40	−3 −9	*)4.12	28.81	−7 0	6.31	19.98	+1 +7	12.02	14.67	+7 +1
4	5.89	37.15	−5 −7	4.12	28.50	−6 +4	6.45	19.74	+4 +5	12.25	14.58	+7 −2
5	5.77	36.89	−7 −3	4.13	28.20	−3 +6	6.60	19.50	+6 +3	12.48	14.49	+6 −5
6	5.65	36.63	−7 +1	4.14	27.89	0 +7	6.75	19.26	+7 0	12.72	14.41	+4 −6
7	5.54	36.37	−5 +4	4.16	27.59	+3 +6	6.90	19.03	+7 −3	12.96	14.34	+1 −7
8	5.43	36.11	−2 +6	4.18	27.28	+5 +4	7.06	18.80	+5 −5	13.20	14.27	−2 −6
9	5.33	35.84	+1 +6	4.21	26.98	+7 +2	7.22	18.58	+3 −7	13.45	14.21	−6 −3
10	5.23	35.57	+4 +5	4.24	26.68	+7 −1	7.38	18.36	0 −7	13.69	14.15	−8 0
11	5.14	35.29	+6 +3	4.28	26.38	+7 −4	7.55	18.14	−4 −5	13.94	14.10	−9 +4
12	5.05	35.01	+7 +1	4.32	26.08	+5 −6	7.72	17.93	−7 −2	14.18	14.06	−8 +8
13	4.96	34.73	+7 −2	4.36	25.78	+2 −7	7.89	17.72	−8 +2	14.43	14.02	−6 +11
14	4.88	34.45	+6 −5	4.41	25.49	−2 −7	8.07	17.52	−9 +6	14.68	13.99	−2 +12
15	4.80	34.17	+4 −7	4.46	25.19	−5 −5	8.25	17.32	−7 +9	14.93	13.96	+2 +10
16	4.73	33.88	0 −7	4.52	24.89	−7 −1	8.44	17.13	−4 +11	15.18	13.94	+6 +7
17	4.66	33.59	−3 −6	4.58	24.60	−9 +3	8.63	16.94	0 +11	15.44	13.93	+8 +1
18	4.59	33.30	−6 −4	4.65	24.31	−8 +7	8.82	16.76	+4 +8	15.69	13.92	+8 −4
19	4.53	33.01	−8 0	4.72	24.02	−6 +10	9.01	16.58	+7 +4	15.95	13.92	+7 −9
20	4.47	32.71	−9 +4	4.80	23.74	−2 +11	9.21	16.41	+8 −1	16.20	13.93	+3 −11
21	4.42	32.42	−7 +8	4.88	23.45	+2 +10	9.41	16.24	+8 −6	16.46	13.95	0 −12
22	4.37	32.12	−5 +11	4.96	23.17	+5 +7	9.61	16.08	+5 −10	16.72	13.97	−4 −10
23	4.33	31.83	−1 +11	5.05	22.89	+8 +2	9.82	15.92	+2 −11	16.97	13.99	−6 −6
24	4.29	31.53	+3 +9	5.14	22.61	+8 −3	10.03	15.77	−2 −11	17.23	14.02	−7 −2
25	4.25	31.23	+6 +5	5.24	22.34	+7 −7	10.24	15.63	−5 −8	17.48	14.06	−6 +2
26	4.22	30.93	+8 0	5.34	22.06	+4 −10	10.45	15.49	−7 −4	17.74	14.10	−4 +5
27	4.19	30.63	+8 −5	5.45	21.79	0 −11	10.67	15.36	−7 0	18.00	14.15	−1 +6
28	4.17	30.33	+6 −8	5.56	21.52	−3 −9	10.89	15.23	−6 +4	18.26	14.21	+2 +6
29	4.15	30.02	+2 −10	5.67	21.26	−6 −6	11.11	15.11	−3 +6	18.51	14.27	+5 +4
30	4.14	29.72	−1 −10	5.79	21.00	−7 −2	11.33	14.99	0 +7	18.77	14.34	+7 +2
31	4.13	29.41	−5 −8	5.92	20.74	−7 +2	11.56	14.88	+3 +6	19.03	14.42	+7 −1
32				6.05	20.48	−4 +5				19.29	14.50	+7 −4

δ	sec δ	tg δ	δ	sec δ	tg δ
−84° 44′ 10″	10.900	−10.854	−84° 44′ 30″	10.911	−10.866
20	10.906	−10.860	40	10.917	−10.871

$\alpha_{1929.0} = 12^h\ 47^m\ 19^s.77 \qquad \delta_{1929.0} = -84°\ 44'\ 17''.69$

*) Tag der doppelten unteren Kulmination: Okt. 3

Scheinbare Sternörter 1929

Obere Kulmination Greenwich

Se) Octantis 20 G. 6ᵐ.52

Tag	Januar AR.	Januar Dekl.	Januar ☾ Glieder	Februar AR.	Februar Dekl.	Februar ☾ Glieder	März AR.	März Dekl.	März ☾ Glieder	April AR.	April Dekl.	April ☾ Glieder
	14ʰ 50ᵐ	−87° 51′	in 0.01ˢ 0.01″	14ʰ 51ᵐ	−87° 51′	in 0.01ˢ 0.01″	14ʰ 51ᵐ	−87° 51′	in 0.01ˢ 0.01″	14ʰ 51ᵐ	−87° 51′	in 0.01ˢ 0.01″
1	57.31	31.12	−2 −11	17.23	30.71	−13 +1	35.07	34.91	−11 +4	50.65	43.47	+10 +8
2	57.90	31.01	−9 −9	17.90	30.79	−9 +5	35.66	35.13	−6 +6	51.04	43.79	+14 +6
3	58.50	30.92	−13 −5	18.56	30.87	−4 +7	36.24	35.35	0 +8	51.43	44.12	+15 +3
4	59.10	30.83	−14 −1	19.22	30.96	+2 +8	36.82	35.58	+6 +8	51.81	44.46	+14 −1
5	59.71	30.75	−12 +3	19.88	31.06	+8 +8	37.40	35.81	+11 +7	52.18	44.79	+10 −4
6	60.33	30.67	−8 +6	20.54	31.16	+13 +6	37.97	36.05	+15 +5	52.55	45.12	+3 −7
7	60.95	30.60	−2 +8	21.20	31.26	+15 +3	38.53	36.29	+15 +1	52.91	45.46	−4 −8
8	61.57	30.53	+4 +8	21.86	31.37	+15 0	39.09	36.54	+13 −2	53.26	45.80	−13 −7
9	62.19	30.47	+10 +7	22.51	31.49	+12 −4	39.64	36.79	+8 −6	53.60	46.13	−19 −4
10	62.82	30.42	+14 +5	23.17	31.61	+6 −7	40.19	37.04	+1 −8	53.93	46.47	−22 0
11	63.46	30.37	+15 +2	23.82	31.74	−1 −8	40.73	37.30	−8 −8	54.26	46.82	−19 +4
12	64.10	30.33	+14 −1	24.47	31.87	−11 −7	41.27	37.56	−15 −6	54.57	47.17	−13 +8
13	64.74	30.29	+10 −5	25.12	32.01	−18 −5	41.80	37.82	−20 −3	54.88	47.51	−4 +10
14	65.38	30.26	+2 −7	25.77	32.16	−22 −1	42.32	38.09	−21 +2	55.18	47.86	+6 +9
15	66.02	30.24	−7 −8	26.41	32.31	−21 +4	42.84	38.36	−17 +6	55.47	48.21	+15 +7
16	66.67	30.22	−15 −6	27.05	32.46	−15 +8	43.35	38.64	−10 +9	55.75	48.56	+20 +2
17	67.32	30.20	−21 −3	27.69	32.62	−7 +10	43.86	38.92	0 +10	56.02	48.91	+21 −3
18	67.97	30.19	−23 +1	28.32	32.79	+3 +10	44.36	39.20	+8 +9	56.29	49.27	+17 −7
19	68.63	30.19	−20 +6	28.95	32.96	+12 +8	44.85	39.48	+17 +5	56.55	49.62	+10 −10
20	69.29	30.20	−13 +9	29.58	33.13	+18 +4	45.34	39.77	+20 +1	56.80	49.97	+2 −11
21	69.95	30.21	−3 +11	30.21	33.31	+20 −1	45.82	40.06	+19 −4	57.04	50.33	−6 −10
22	70.61	30.23	+7 +10	30.83	33.49	+17 −6	46.30	40.36	+14 −8	57.27	50.69	−12 −7
23	71.27	30.25	+15 +6	31.45	33.68	+11 −9	46.77	40.66	+6 −11	57.49	51.05	−15 −3
24	71.93	30.28	+20 +2	32.06	33.88	+3 −11	47.23	40.96	−2 −10	57.70	51.41	−14 +1
25	72.59	30.31	+20 −4	32.67	34.08	−5 −10	47.68	41.26	−9 −9	57.91	51.77	−11 +5
26	73.26	30.35	+16 −8	33.28	34.28	−11 −8	48.12	41.57	−14 −5	58.10	52.13	−5 +7
27	73.92	30.39	+9 −11	33.88	34.48	−14 −4	48.56	41.88	−15 −1	58.29	52.49	+1 +8
28	74.58	30.44	+1 −11	34.48	34.69	−14 0	48.99	42.19	−13 +3	58.46	52.85	+7 +8
29	75.25	30.50	−6 −10	35.07	34.91	−11 +4	49.42	42.51	−9 +6	58.63	53.21	+12 +7
30	75.91	30.56	−12 −7				49.84	42.83	−3 +8	58.79	53.57	+15 +4
31	76.57	30.63	−14 −3				50.25	43.15	+4 +8	58.94	53.93	+15 0
32	77.23	30.71	−13 +1				50.65	43.47	+10 +8			

δ	sec δ	tg δ	δ	sec δ	tg δ
−87° 51′ 30″	26.759	−26.740	−87° 51′ 50″	26.829	−26.810
40	26.794	−26.775	60	26.864	−26.845

$\alpha_{1929.0} = 14^h\ 51^m\ 30^s.56$ $\delta_{1929.0} = -87°\ 51'\ 49''.23$

Obere Kulmination Greenwich

Se) Octantis 20 G. 6ᵐ.52

Tag	Mai AR.	Mai Dekl.	Mai ☾ Glieder		Juni AR.	Juni Dekl.	Juni ☾ Glieder		Juli AR.	Juli Dekl.	Juli ☾ Glieder		August AR.	August Dekl.	August ☾ Glieder	
	$14^h\,51^m$	−87° 51′	in 0.01 s	in 0.01″	$14^h\,51^m$	−87° 52′	in 0.01 s	in 0.01″	$14^h\,51^m$	−87° 52′	in 0.01 s	in 0.01″	$14^h\,51^m$	−87° 52′	in 0.01 s	in 0.01″
1	58.94	53.93	+15	0	58.89	5.17	−16	−6	50.69	13.63	−23	+5	36.13	18.26	+7	+10
2	59.08	54.29	+12	−3	58.74	5.50	−21	−2	50.30	13.85	−17	+9	35.60	18.32	+15	+7
3	59.21	54.65	+6	−6	58.58	5.82	−23	+2	49.90	14.07	−9	+11	35.07	18.38	+19	+2
4	59.33	55.01	−2	−7	58.41	6.14	−20	+6	49.49	14.28	+2	+11	34.54	18.43	+19	−4
5	59.45 59.55	55.38 55.74	−10 −18	−7 −5	58.23	6.46	−13	+9	49.08	14.49	+11	+9	34.01	18.48	+14	−8
6	59.65	56.10	−22	−1	58.04	6.78	−3	+11	48.67	14.70	+18	+4	33.47	18.52	+7	−11
7	59.73	56.46	−22	+3	57.84	7.09	+7	+9	48.25	14.90	+20	−1	32.93	18.55	−2	−11
8	59.81	56.82	−17	+7	57.64	7.40	+16	+6	47.82	15.10	+18	−6	32.39	18.58	−9	−9
9	59.88	57.18	−8	+10	57.42	7.71	+21	+1	47.39	15.29	+11	−10	31.85	18.60	−13	−6
10	59.94	57.54	+2	+10	57.20	8.02	+21	−4	46.95	15.48	+4	−12	31.31	18.62	−14	−2
11	59.99	57.90	+11	+8	56.97	8.32	+17	−8	46.51	15.66	−4	−11	30.77	18.63	−11	+2
12	60.03	58.26	+19	+4	56.73	8.62	+10	−11	46.06	15.84	−10	−8	30.23	18.63	−6	+5
13	60.06	58.62	+22	−1	56.48	8.92	+1	−12	45.60	16.01	−14	−5	29.69	18.63	0	+7
14	60.08	58.98	+20	−6	56.23	9.21	−7	−10	45.14	16.18	−13	0	29.15	18.62	+7	+8
15	60.09	59.33	+14	−10	55.97	9.50	−12	−7	44.68	16.34	−10	+3	28.61	18.61	+12	+7
16	60.09	59.69	+6	−12	55.70	9.79	−14	−3	44.21	16.50	−5	+6	28.07	18.59	+16	+4
17	60.08	60.04	−3	−11	55.42	10.07	−13	+1	43.73	16.65	+2	+8	27.53	18.57	+17	+1
18	60.07	60.40	−10	−9	55.13	10.35	−9	+5	43.25	16.79	+8	+8	26.99	18.54	+15	−2
19	60.05	60.75	−14	−5	54.83	10.62	−3	+7	42.77	16.93	+13	+6	26.45	18.50	+10	−5
20	60.02	61.10	−14	−1	54.52	10.89	+4	+8	42.28	17.07	+16	+3	25.91	18.46	+3	−8
21	59.98	61.45	−12	+3	54.21	11.16	+10	+8	41.79	17.20	+16	0	25.38	18.41	−5	−8
22	59.92	61.80	−7	+6	53.89	11.42	+14	+6	41.29	17.33	+13	−3	24.85	18.36	−13	−7
23	59.86	62.14	0	+8	53.56	11.68	+16	+2	40.79	17.45	+8	−6	24.32	18.30	−19	−4
24	59.79	62.49	+6	+8	53.23	11.94	+15	−1	40.28	17.56	0	−8	23.79	18.24	−22	0
25	59.71	62.83	+11	+7	52.89	12.19	+11	−4	39.77	17.67	−9	−7	23.26	18.17	−21	+5
26	59.62	63.17	+14	+5	52.54	12.44	+4	−6	39.26	17.77	−17	−5	22.73	18.09	−15	+9
27	59.52	63.51	+15	+2	52.18	12.69	−4	−7	38.75	17.87	−22	−2	22.21	18.01	−6	+11
28	59.41	63.84	+13	−2	51.82	12.93	−13	−7	38.23	17.96	−23	+3	21.69	17.92	+4	+11
29	59.30	64.18	+8	−5	51.45	13.17	−20	−4	37.71	18.04	−20	+7	21.17	17.83	+12	+8
30	59.17	64.51	+1	−7	51.07	13.40	−23	0	37.19	18.12	−13	+11	20.66	17.73	+18	+4
31	59.04	64.84	−7	−7	50.69	13.63	−23	+5	36.66	18.19	−3	+12	20.15	17.63	+19	−1
32	58.89	65.17	−16	−6					36.13	18.26	+7	+10	19.64	17.52	+16	−6

δ	sec δ	tg δ	δ	sec δ	tg δ
−87° 51′ 50″	26.829	−26.810	−87° 52′ 10″	26.899	−26.880
60	26.864	−26.845	20	26.934	−26.915

$\alpha_{1929.0} = 14^h\ 51^m\ 30^s.56$ $\delta_{1929.0} = -87°\ 51'\ 49''.23$

Scheinbare Sternörter 1929

Obere Kulmination Greenwich

Se) Octantis 20 G. $6^m.52$

Tag	September			Oktober			November			Dezember		
	AR.	Dekl.	☾ Glieder	AR.	Dekl.	☾ Glieder	AR.	Dekl.	☾ Glieder	AR.	Dekl.	☾ Glieder
	$14^h 51^m$	$-87° 52'$	in 0.01^s $0.01''$	$14^h 51^m$	$-87° 52'$	in 0.01^s $0.01''$	$14^h 51^m$	$-87° 51'$	in 0.01^s $0.01''$	$14^h 51^m$	$-87° 51'$	in 0.01^s $0.01''$
1	19.64	17.52	+16 −6	7.08	11.88	−5 −11	2.47	62.93	−14 +2	8.29	54.28	+3 +8
2	19.14	17.40	+9 −10	6.77	11.63	−11 −8	2.50	62.62	−8 +6	8.65	54.03	+10 +8
3	18.64	17.28	+1 −11	6.48	11.37	−15 −4	2.54	62.31	−2 +8	9.03	53.78	+15 +6
4	18.15	17.15	−7 −10	6.20	11.11	−15 0	*)2.59	62.01	+5 +8	9.41	53.54	+17 +3
5	17.66	17.02	−12 −7	5.92	10.85	−11 +4	2.66	61.70	+11 +7	9.80	53.30	+17 0
6	17.18	16.88	−15 −3	5.65	10.58	−6 +6	2.73	61.39	+15 +5	10.20	53.07	+13 −4
7	16.70	16.74	−13 +1	5.39	10.31	+1 +8	2.82	61.09	+17 +2	10.61	52.84	+7 −6
8	16.22	16.59	−9 +5	5.15	10.04	+8 +8	2.92	60.78	+15 −2	11.03	52.61	−1 −7
9	15.75	16.44	−3 +7	4.91	9.77	+13 +6	3.03	60.48	+11 −5	11.46	52.39	−10 −7
10	15.29	16.28	+4 +8	4.68	9.49	+16 +4	3.15	60.18	+4 −7	11.90	52.17	−17 −5
11	14.83	16.12	+10 +7	4.47	9.21	+17 0	3.28	59.88	−5 −8	12.35	51.96	−22 −1
12	14.38	15.95	+15 +5	4.27	8.93	+14 −3	3.43	59.58	−13 −7	12.80	51.75	−23 +3
13	13.93	15.78	+17 +2	4.08	8.64	+9 −6	3.58	59.28	−19 −4	13.26	51.54	−20 +7
14	13.49	15.60	+16 −1	3.90	8.35	+1 −8	3.75	58.98	−23 0	13.73	51.34	−12 +10
15	13.05	15.41	+13 −4	3.72	8.06	−7 −8	3.93	58.69	−22 +4	14.21	51.14	−2 +11
16	12.62	15.22	+7 −7	3.56	7.77	−15 −6	4.12	58.39	−16 +8	14.70	50.95	+8 +10
17	12.20	15.03	−2 −8	3.41	7.47	−20 −3	4.33	58.10	−8 +11	15.20	50.76	+16 +6
18	11.78	14.83	−10 −8	3.27	7.17	−22 +1	4.54	57.81	+3 +11	15.71	50.58	+20 +1
19	11.37	14.63	−17 −5	3.14	6.88	−20 +6	4.76	57.52	+12 +8	16.22	50.40	+20 −4
20	10.97	14.42	−21 −1	3.02	6.58	−13 +9	5.00	57.23	+18 +4	16.74	50.23	+16 −9
21	10.58	14.21	−22 +3	2.91	6.28	−3 +11	5.24	56.95	+21 −1	17.26	50.06	+7 −11
22	10.20	14.00	−17 +7	2.81	5.98	+7 +10	5.50	56.67	+18 −6	17.79	49.90	−1 −12
23	9.82	13.78	−10 +10	2.73	5.68	+15 +7	5.77	56.39	+12 −10	18.33	49.74	−8 −10
24	9.45	13.56	0 +11	2.65	5.37	+20 +2	6.04	56.12	+3 −12	18.88	49.59	−14 −6
25	9.09	13.33	+10 +9	2.59	5.07	+19 −3	6.33	55.85	−5 −11	19.43	49.45	−15 −2
26	8.73	13.10	+17 +6	2.54	4.77	+16 −7	6.63	55.58	−12 −8	19.99	49.31	−12 +3
27	8.38	12.86	+20 +1	2.50	4.46	+8 −10	6.94	55.31	−15 −4	20.56	49.17	−6 +6
28	8.04	12.62	+18 −5	2.48	4.15	−1 −11	7.26	55.05	−14 0	21.13	49.04	+1 +7
29	7.71	12.38	+12 −9	2.46	3.85	−9 −9	7.60	54.79	−10 +4	21.71	48.92	+8 +8
30	7.39	12.13	+4 −11	2.45	3.54	−14 −6	7.94	54.53	−4 +7	22.29	48.80	+14 +6
31	7.08	11.88	−5 −11	2.45	3.24	−16 −2	8.29	54.28	+3 +8	22.88	48.69	+17 +4
32				2.47	2.93	−14 +2				23.47	48.59	+18 0

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
−87° 51′ 40″	26.794	−26.775	−87° 51′ 50″	26.829	−26.810	−87° 52′ 10″	26.899	−26.880
50	26.829	−26.810	60	26.864	−26.845	20	26.934	−26.915

$\alpha_{1929.0} = 14^h\ 51^m\ 30^s.56$ $\delta_{1929.0} = -87°\ 51'\ 49''.23$

*) Tag der doppelten unteren Kulmination: Nov. 4

Scheinbare Sternörter 1929

Obere Kulmination Greenwich

S/) Octantis 26 G. $6^m.13$

Tag	Januar AR.	Januar Dekl.	Januar ☾ Glieder	Februar AR.	Februar Dekl.	Februar ☾ Glieder	März AR.	März Dekl.	März ☾ Glieder	April AR.	April Dekl.	April ☾ Glieder
	$16^h 33^m$	−86° 14′	in 0.01^s 0.01″	$16^h 33^m$	−86° 14′	in 0.01^s 0.01″	$16^h 33^m$	−86° 14′	in 0.01^s 0.01″	$16^h 34^m$	−86° 14′	in 0.01^s 0.01″
1	37.67	19.90	+ 4 − 11	47.82	14.91	− 8 − 2	58.91	14.51	− 8 + 1	10.76	18.53	+ 1 + 9
2	37.94	19.67	0 − 10	48.20	14.83	− 7 + 2	59.31	14.57	− 7 + 5	11.11	18.73	+ 5 + 8
3	38.21	19.45	− 4 − 8	48.59	14.75	− 5 + 6	59.71	14.64	− 4 + 8	11.46	18.93	+ 7 + 6
4	38.49	19.23	− 7 − 4	48.97	14.68	− 3 + 8	60.11	14.71	0 + 9	11.80	19.14	+ 8 + 2
5	38.77	19.02	− 8 0	49.35	14.61	+ 1 + 9	60.51	14.79	+ 3 + 9	12.14	19.35	+ 7 − 2
6	39.05	18.81	− 7 + 4	49.74	14.54	+ 4 + 8	60.91	14.87	+ 6 + 7	12.48	19.56	+ 5 − 6
7	39.34	18.60	− 5 + 7	50.13	14.48	+ 7 + 6	61.31	14.95	+ 8 + 4	12.81	19.78	+ 1 − 9
8	39.63	18.40	− 2 + 9	50.51	14.43	+ 8 + 3	61.71	15.04	+ 8 0	13.14	20.00	− 4 − 9
9	39.93	18.20	+ 2 + 9	50.90	14.38	+ 8 − 1	62.10	15.13	+ 7 − 4	13.47	20.22	− 9 − 8
10	40.23	18.00	+ 5 + 8	51.30	14.34	+ 6 − 5	62.49	15.23	+ 4 − 7	13.79	20.45	− 12 − 5
11	40.54	17.81	+ 7 + 5	51.69	14.30	+ 2 − 8	62.89	15.33	− 1 − 9	14.11	20.68	− 13 0
12	40.85	17.63	+ 8 + 2	52.09	14.27	− 3 − 9	63.28	15.44	− 6 − 9	14.43	20.91	− 11 + 5
13	41.17	17.45	+ 7 − 2	52.49	14.24	− 8 − 8	63.67	15.55	− 10 − 7	14.74	21.15	− 8 + 8
14	41.49	17.28	+ 4 − 6	52.88	14.22	− 12 − 5	64.06	15.67	− 12 − 3	15.05	21.39	− 1 + 10
15	41.81	17.11	0 − 9	53.28	14.20	− 13 − 1	64.45	15.79	− 11 + 2	15.36	21.63	+ 5 + 9
16	42.14	16.94	− 5 − 9	53.68	14.19	− 12 + 4	64.84	15.92	− 10 + 6	15.66	21.88	+ 10 + 6
17	42.47	16.78	− 10 − 7	54.08	14.18	− 9 + 8	65.22	16.05	− 5 + 10	15.96	22.13	+ 13 + 2
18	42.80	16.62	− 13 − 3	54.48	14.18	− 3 + 10	65.61	16.19	+ 1 + 10	16.26	22.38	+ 13 − 3
19	43.14	16.46	− 13 + 1	54.88	14.19	+ 3 + 10	65.99	16.33	+ 7 + 9	16.55	22.64	+ 10 − 7
20	43.48	16.31	− 11 + 6	55.29	14.20	+ 8 + 7	66.37	16.47	+ 11 + 5	16.84	22.90	+ 6 − 10
21	43.83	16.16	− 7 + 10	55.69	14.21	+ 11 + 3	66.75	16.62	+ 13 0	17.12	23.17	+ 1 − 10
22	44.18	16.02	− 1 + 11	56.09	14.23	+ 12 − 2	67.12	16.77	+ 11 − 5	17.40	23.43	− 3 − 9
23	44.53	15.89	+ 5 + 9	56.50	14.26	+ 10 − 6	67.49	16.93	+ 8 − 9	17.68	23.70	− 7 − 6
24	44.89	15.76	+ 10 + 6	56.90	14.29	+ 7 − 10	67.86	17.09	+ 4 − 10	17.95	23.97	− 8 − 2
25	45.25	15.64	+ 13 + 1	57.30	14.32	+ 2 − 11	68.23	17.25	− 1 − 10	18.22	24.24	− 8 + 2
26	45.61	15.52	+ 12 − 4	57.70	14.36	− 2 − 9	68.60	17.42	− 5 − 8	18.48	24.52	− 6 + 6
27	45.97	15.40	+ 10 − 8	58.11	14.41	− 6 − 7	68.96	17.60	− 8 − 5	18.74	24.80	− 3 + 8
28	46.33	15.29	+ 6 − 10	58.51	14.46	− 8 − 3	69.33	17.78	− 8 0	18.99	25.08	0 + 9
29	46.70	15.19	+ 1 − 10	58.91	14.51	− 8 + 1	69.69	17.96	− 7 + 4	19.24	25.36	+ 3 + 9
30	47.07	15.09	− 3 − 9				70.05	18.14	− 5 + 7	19.49	25.65	+ 6 + 7
31	47.45	15.00	− 7 − 6				70.41	18.33	− 2 + 9	19.73	25.94	+ 8 + 4
32	47.82	14.91	− 8 − 2				70.76	18.53	+ 1 + 9			

δ	sec δ	tg δ	δ	sec δ	tg δ
−86° 14′ 10″	15.233	−15.201	−86° 14′ 20″	15.245	−15.212
20	15.245	−15.212	30	15.256	−15.223

$\alpha_{1929.0} = 16^h\ 34^m\ 3^s.12$ $\delta_{1929.0} = -86°\ 14'\ 28''.33$

Scheinbare Sternörter 1929

Obere Kulmination Greenwich

S/) Octantis 26 G. $6^m.13$

Tag	Mai				Juni				Juli				August			
	AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder	
	$16^h 34^m$	—86° 14′	in 0.01^s	$0.01''$	$16^h 34^m$	—86° 14′	in 0.01^s	$0.01''$	$16^h 34^m$	—86° 14′	in 0.01^s	$0.01''$	$16^h 34^m$	—86° 14′	in 0.01^s	$0.01''$
1	19.73	25.94	+ 8	+ 4	24.86	36.04	− 6	− 9	24.61	45.57	−15	0	19.41	53.18	− 1	+11
2	19.97	26.23	+ 8	0	24.93	36.37	−11	− 7	24.51	45.86	−14	+ 4	19.17	53.36	+ 5	+ 9
3	20.20	26.53	+ 6	− 4	25.00	36.70	−13	− 3	24.41	46.15	−10	+ 8	18.93	53.54	+10	+ 6
4	20.42	26.82	+ 2	− 7	25.06	37.03	−14	+ 1	24.31	46.44	− 4	+11	18.69	53.72	+12	0
5	20.64	27.12	− 2	− 9	25.11	37.35	−11	+ 6	24.20	46.73	+ 2	+11	18.44	53.89	+12	− 5
6	20.86	27.42	− 7	− 9	25.16	37.68	− 7	+ 9	24.08	47.01	+ 8	+ 8	18.19	54.05	+ 9	− 9
7	21.08	27.72	−11	− 6	25.21	38.00	0	+10	23.96	47.29	+12	+ 3	17.94	54.21	+ 4	−11
8	21.29	28.03	−13	− 2	25.25	38.33	+ 6	+ 9	23.84	47.57	+13	− 2	17.68	54.36	0	−11
9	21.49	28.33	−12	+ 3	25.28	38.67	+11	+ 6	23.71	47.84	+12	− 7	17.42	54.51	− 4	− 8
10	21.69	28.64	− 9	+ 7	25.31	39.00	+13	+ 1	23.57	48.11	+ 8	−10	17.16	54.65	− 7	− 5
11	21.89	28.95	− 3	+10	25.33	39.32	+13	− 4	23.43	48.38	+ 3	−11	16.89	54.79	− 7	0
12	22.08	29.26	+ 3	+10	25.35	39.65	+11	− 8	23.29	48.65	− 2	−10	16.62	54.92	− 6	+ 4
13	22.26	29.58	+ 9	+ 8	25.36	39.97	+ 6	−11	23.14	48.91	− 5	− 7	16.35	55.05	− 3	+ 7
14	22.44	29.89	+12	+ 4	25.37	40.29	+ 1	−11	22.98	49.17	− 7	− 3	16.08	55.17	0	+ 9
15	22.62	30.20	+14	− 1	25.37	40.62	− 3	− 9	22.82	49.43	− 7	+ 1	15.81	55.29	+ 3	+ 9
16	22.79	30.52	+12	− 6	25.36	40.94	− 7	− 5	22.66	49.68	− 5	+ 5	15.53	55.40	+ 7	+ 7
17	22.95	30.84	+ 9	− 9	25.35	41.26	− 8	− 1	22.49	49.93	− 2	+ 8	15.25	55.51	+ 9	+ 5
18	23.11	31.16	+ 4	−11	25.33	41.58	− 7	+ 3	22.31	50.17	+ 1	+ 9	14.96	55.61	+ 9	+ 1
19	23.27	31.48	− 1	−10	25.31	41.89	− 5	+ 6	22.13	50.41	+ 4	+ 9	14.68	55.71	+ 8	− 3
20	23.42	31.80	− 5	− 7	25.28	42.21	− 2	+ 8	21.95	50.65	+ 7	+ 7	14.39	55.80	+ 5	− 6
21	23.56	32.12	− 8	− 4	25.25	42.52	+ 2	+ 9	21.76	50.88	+ 9	+ 4	14.10	55.89	+ 1	− 9
22	23.70	32.45	− 8	+ 1	25.21	42.83	+ 5	+ 8	21.57	51.11	+ 9	0	13.81	55.97	− 4	− 9
23	23.83	32.77	− 7	+ 4	25.17	43.14	+ 7	+ 6	21.37	51.34	+ 7	− 4	13.51	56.04	− 9	− 8
24	23.95	33.10	− 4	+ 7	25.12	43.45	+ 8	+ 2	21.17	51.56	+ 3	− 7	13.22	56.11	−13	− 4
25	24.07	33.43	− 1	+ 9	25.06	43.76	+ 8	− 2	20.96	51.78	− 1	− 9	12.92	56.17	−14	0
26	24.19	33.75	+ 3	+ 9	25.00	44.07	+ 5	− 5	20.75	51.99	− 7	− 9	12.62	56.23	−13	+ 5
27	24.30	34.08	+ 6	+ 8	24.93	44.37	+ 1	− 8	20.54	52.20	−11	− 7	12.32	56.28	− 9	+ 9
28	24.40	34.41	+ 8	+ 5	24.86	44.67	− 4	− 9	20.32	52.40	−14	− 3	12.02	56.32	− 3	+11
29	24.50	34.73	+ 8	+ 1	24.78	44.97	− 9	− 8	20.10	52.60	−14	+ 2	11.72	56.36	+ 3	+10
30	24.60	35.06	+ 7	− 3	24.70	45.27	−13	− 5	19.87	52.80	−12	+ 7	11.42	56.39	+ 8	+ 7
31	{24.69 {24.78	35.38 35.71	+ 4 − 1	− 6 − 9	24.61	45.57	−15	0	19.64	52.99	− 7	+10	11.11	56.42	+11	+ 3
32	24.86	36.04	− 6	− 9					19.41	53.18	− 1	+11	10.81	56.44	+12	− 2

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
−86° 14′ 20″	15.245	−15.212	−86° 14′ 40″	15.267	−15.234	−86° 14′ 50″	15.278	−15.246
30	15.256	−15.223	50	15.278	−15.246	60	15.290	−15.257

$\alpha_{1929.0} = 16^h\ 34^m\ 3^s.12$ $\qquad\delta_{1929.0} = -86°\ 14'\ 28''.33$

Obere Kulmination Greenwich

Sf) Octantis 26 G. $6^m.13$

Tag	September AR.	September Dekl.	September ☾ Glieder	Oktober AR.	Oktober Dekl.	Oktober ☾ Glieder	November AR.	November Dekl.	November ☾ Glieder	Dezember AR.	Dezember Dekl.	Dezember ☾ Glieder
	$16^h 34^m$	— 86° 14′	in $0^s.01$ $0''.01$	$16^h 33^m$	— 86° 14′	in $0^s.01$ $0''.01$	$16^h 33^m$	— 86° 14′	in $0^s.01$ $0''.01$	$16^h 33^m$	— 86° 14′	in $0^s.01$ $0''.01$
1	10.81	56.44	+12 − 2	62.00	54.43	+ 2 −11	55.78	47.58	− 8 − 1	55.03	38.55	− 2 + 8
2	10.51	56.46	+10 − 7	61.74	54.27	− 2 −10	55.66	47.30	− 7 + 3	55.11	38.25	+ 2 + 9
3	10.21	56.47	+ 6 −10	61.48	54.11	− 6 − 7	55.55	47.02	− 4 + 7	55.20	37.94	+ 5 + 9
4	9.90	56.47	+ 1 −11	61.22	53.95	− 8 − 3	55.44	46.74	− 1 + 9	55.29	37.64	+ 8 + 6
5	9.60	56.47	− 3 − 9	60.97	53.78	− 8 + 1	55.34	46.45	+ 3 + 9	55.39	37.34	+ 9 + 3
6	9.29	56.46	− 7 − 6	60.72	53.61	− 6 + 5	55.25	46.16	+ 6 + 8	55.50	37.04	+ 9 − 1
7	8.99	56.45	− 8 − 2	60.47	53.43	− 3 + 8	55.16	45.87	+ 8 + 5	55.61	36.74	+ 6 − 4
8	8.69	56.43	− 7 + 2	60.23	53.24	+ 1 + 9	55.08	45.58	+ 9 + 2	55.73	36.44	+ 3 − 7
9	8.39	56.41	− 5 + 6	59.99	53.05	+ 4 + 9	55.01	45.28	+ 8 − 2	55.85	36.14	− 2 − 9
10	8.08	56.38	− 1 + 8	59.76	52.85	+ 7 + 7	54.94	44.99	+ 5 − 6	55.98	35.85	− 7 − 8
11	7.78	56.34	+ 2 + 9	59.53	52.65	+ 9 + 4	54.88	44.69	+ 1 − 8	56.12	35.56	−11 − 6
12	7.48	56.30	+ 6 + 8	59.30	52.45	+ 9 0	54.82	44.39	− 4 − 9	56.27	35.27	−14 − 2
13	7.18	56.25	+ 8 + 6	59.08	52.24	+ 7 − 4	54.77	44.09	− 9 − 8	56.42	34.98	−14 + 3
14	6.87	56.20	+ 9 + 2	58.86	52.03	+ 4 − 7	54.73	43.79	−12 − 5	56.58	34.69	−12 + 7
15	6.57	56.14	+ 9 − 1	58.64	51.82	0 − 9	54.70	43.48	−14 − 1	56.74	34.40	− 7 +10
16	6.27	56.08	+ 7 − 5	58.43	51.60	− 5 − 9	54.67	43.17	−13 + 4	56.91	34.12	0 +11
17	5.97	56.01	+ 3 − 8	58.22	51.38	−10 − 7	54.65	42.86	− 9 + 8	57.09	33.84	+ 6 + 9
18	5.67	55.93	− 2 − 9	58.02	51.15	−13 − 3	54.63	42.55	− 3 +11	57.27	33.56	+11 + 6
19	5.38	55.85	− 7 − 9	57.83	50.92	−13 + 1	54.62	42.25	+ 3 +11	57.46	33.29	+13 0
20	5.09	55.76	−11 − 6	57.64	50.68	−11 + 6	54.62	41.94	+ 8 + 8	57.65	33.02	+12 − 5
21	4.80	55.67	−13 − 2	57.45	50.44	− 7 + 9	54.63	41.63	+12 + 3	57.85	32.75	+ 9 − 9
22	4.51	55.57	−13 + 3	57.27	50.20	− 1 +11	54.64	41.32	+13 − 2	58.06	32.48	+ 5 −11
23	4.22	55.47	−10 + 7	57.10	49.95	+ 5 +10	54.66	41.01	+11 − 7	58.27	32.21	0 −11
24	3.93	55.36	− 5 +10	56.93	49.70	+10 + 7	54.68	40.71	+ 7 −10	58.49	31.95	− 5 − 8
25	3.65	55.24	+ 1 +11	56.76	49.45	+12 + 2	54.71	40.40	+ 2 −11	58.71	31.69	− 7 − 5
26	3.37	55.12	+ 6 + 9	56.60	49.19	+12 − 4	54.75	40.09	− 3 −10	58.94	31.44	− 8 0
27	3.09	54.99	+10 + 5	56.45	48.93	+ 9 − 8	54.79	39.78	− 7 − 7	59.17	31.19	− 6 + 4
28	2.81	54.86	+12 0	56.30	48.67	+ 4 −10	54.84	39.47	− 8 − 3	59.41	30.94	− 3 + 7
29	2.54	54.72	+11 − 5	56.16	48.40	0 −11	54.90	39.16	− 8 + 2	59.66	30.70	+ 1 + 9
30	2.27	54.58	+ 7 − 9	56.03	48.13	− 5 − 9	*)54.96	38.86	− 5 + 6	59.91	30.46	+ 4 + 9
31	2.00	54.43	+ 2 −11	55.90	47.86	− 8 − 5	55.03	38.55	− 2 + 8	60.16	30.22	+ 7 + 7
32				55.78	47.58	− 8 − 1				60.42	29.99	+ 9 + 4

δ	sec δ	tg δ	δ	sec δ	tg δ
−86° 14′ 30″	15.256	−15.223	−86° 14′ 50″	15.278	−15.246
40	15.267	−15.234	60	15.290	−15.257

$\alpha_{1929.0} = 16^h\ 34^m\ 3^s.12$ $\delta_{1929.0} = -86°\ 14'\ 28''.33$

*) Tag der doppelten unteren Kulmination: Nov. 30

Sg) χ Octantis $5^m.22$

Tag	Januar AR.	Januar Dekl.	☾ Glieder		Februar AR.	Februar Dekl.	☾ Glieder	
	$18^h 12^m$	—87° 39′	in 0.01 s	in 0.01 ″	$18^h 12^m$	—87° 39′	in 0.01 s	in 0.01 ″
1	37.98	45.55	+13	−9	49.08	36.90	−10	−4
2	38.21	45.23	+6	−10	49.57	36.67	−12	0
3	38.44	44.92	−1	−9	50.07	36.45	−12	+4
4	38.68	44.62	−7	−6	50.57	36.23	−9	+7
5	38.93	44.31	−11	−3	51.07	36.01	−5	+9
6	39.19	44.00	−12	+1	51.58	35.79	0	+9
7	39.46	43.70	−11	+5	52.10	35.58	+6	+8
8	39.74	43.40	−8	+8	52.62	35.38	+10	+6
9	40.03	43.09	−3	+9	53.15	35.18	+12	+1
10	40.33	42.79	+2	+9	53.69	34.98	+12	−3
11	40.64	42.50	+7	+7	54.23	34.79	+8	−7
12	40.96	42.21	+11	+4	54.77	34.60	+2	−10
13	41.29	41.92	+12	0	55.32	34.41	−6	−11
14	41.63	41.63	+10	−4	55.88	34.23	−13	−9
15	41.97	41.34	+5	−8	56.44	34.05	−18	−5
16	42.32	41.05	−2	−10	57.01	33.88	−19	0
17	42.68	40.77	−10	−10	57.58	33.71	−17	+5
18	43.05	40.49	−16	−8	58.16	33.55	−11	+9
19	43.43	40.21	−20	−3	58.74	33.39	−2	+10
20	43.82	39.94	−20	+2	59.33	33.24	+7	+10
21	44.21	39.67	−15	+7	59.92	33.09	+14	+7
22	44.62	39.40	−7	+10	60.51	32.94	+18	+2
23	45.03	39.14	+2	+10	61.11	32.80	+19	−2
24	45.45	38.88	+11	+9	61.71	32.67	+16	−7
25	45.88	38.62	+17	+5	62.32	32.54	+10	−9
26	46.31	38.36	+20	0	62.93	32.41	+3	−10
27	46.75	38.11	+19	−4	63.54	32.28	−4	−8
28	47.20	37.86	+14	−8	64.16	32.16	−9	−5
29	47.66	37.62	+8	−9	64.78	32.05	−12	−1
30	48.13	37.38	+1	−9				
31	48.60	37.14	−5	−7				
32	49.08	36.90	−10	−4				

Tag	März AR.	März Dekl.	☾ Glieder		April AR.	April Dekl.	☾ Glieder	
	$18^h 13^m$	—87° 39′	in 0.01 s	in 0.01 ″	$18^h 13^m$	—87° 39′	in 0.01 s	in 0.01 ″
1	4.78	32.05	−12	−1	24.69	30.91	−4	+9
2	5.40	31.94	−12	+2	25.33	30.95	+1	+9
3	6.02	31.84	−10	+6	25.97	31.00	+6	+8
4	6.65	31.74	−7	+8	26.61	31.05	+10	+5
5	7.28	31.64	−2	+9	27.25	31.10	+12	0
6	7.91	31.55	+4	+9	27.88	31.16	+11	−4
7	8.54	31.47	+9	+7	28.52	31.22	+7	−8
8	9.18	31.39	+12	+3	29.15	31.29	0	−10
9	9.81	31.31	+12	−1	29.78	31.36	−7	−11
10	10.45	31.24	+10	−5	30.41	31.44	−14	−8
11	11.09	31.18	+4	−9	31.03	31.52	−18	−4
12	11.73	31.12	−2	−11	31.66	31.61	−18	+1
13	12.37	31.06	−10	−10	32.28	31.70	−15	+6
14	13.02	31.01	−16	−7	32.90	31.80	−8	+9
15	13.66	30.96	−19	−2	33.51	31.90	+2	+11
16	14.31	30.92	−18	+3	34.12	32.00	+10	+10
17	14.96	30.88	−13	+7	34.73	32.11	+17	+6
18	15.60	30.85	−5	+10	35.33	32.22	+20	+1
19	16.25	30.82	+4	+10	35.93	32.34	+20	−3
20	16.90	30.80	+12	+8	36.53	32.46	+15	−7
21	17.55	30.78	+17	+4	37.12	32.59	+8	−9
22	18.21	30.77	+19	−1	37.71	32.72	+1	−10
23	18.86	30.76	+17	−5	38.30	32.85	−6	−8
24	19.51	30.75	+12	−8	38.88	32.99	−11	−5
25	20.16	30.75	+5	−10	39.45	33.14	−13	−1
26	20.81	30.76	−2	−9	40.02	33.29	−12	+3
27	21.45	30.77	−8	−7	40.59	33.44	−10	+7
28	22.10	30.79	−12	−3	41.16	33.59	−6	+9
29	22.75	30.81	−13	+1	41.72	33.75	0	+9
30	23.40	30.84	−12	+5	42.27	33.92	+5	+9
31	24.04	30.87	−8	+8	42.82	34.09	+9	+6
32	24.69	30.91	−4	+9				

δ	sec δ	tg δ	δ	sec δ	tg δ
−87° 39′ 30″	24.475	−24.454	−87° 39′ 40″	24.504	−24.483
40	24.504	−24.483	50	24.533	−24.513

$\alpha_{1929.0} = 18^h\ 13^m\ 20^s.60$ $\delta_{1929.0} = -87°\ 39'\ 43''.13$

Sg) χ Octantis $5^m.22$

Tag	Mai AR.	Mai Dekl.	Mai ☾ Glieder	Juni AR.	Juni Dekl.	Juni ☾ Glieder	Juli AR.	Juli Dekl.	Juli ☾ Glieder	August AR.	August Dekl.	August ☾ Glieder
	$18^h 13^m$	—87° 39′	in 0.01^s 0.01″	$18^h 13^m$	—87° 39′	in 0.01^s 0.01″	$18^h 14^m$	—87° 39′	in 0.01^s 0.01″	$18^h 13^m$	—87° 39′	in 0.01^s 0.01″
1	42.82	34.09	+ 9 + 6	56.89	41.08	+ 4 − 9	3.45	50.33	−20 − 5	61.13	59.60	− 8 +10
2	43.36	34.26	+11 + 2	57.24	41.36	− 3 −10	3.51	50.65	−22 0	60.91	59.87	+ 2 +11
3	43.90	34.44	+11 − 2	57.57	41.63	−11 −10	3.56	50.96	−19 + 5	60.68	60.14	+11 + 9
4	44.44	34.62	+ 9 − 6	57.89	41.91	−17 − 8	3.60	51.27	−12 + 9	60.45	60.40	+17 + 5
5	44.97	34.81	+ 2 −10	58.20	42.19	−20 − 3	3.64	51.59	− 3 +11	60.21	60.66	+20 − 1
6	45.49	35.00	− 5 −11	58.51	42.47	−20 + 2	3.67	51.90	+ 7 +10	59.96	60.92	+18 − 5
7	46.01	35.19	−12 −10	58.81	42.76	−15 + 6	3.69	52.21	+15 + 7	59.69	61.18	+13 − 9
8	46.52	35.38	−17 − 6	59.10	43.04	− 7 +10	3.70	52.52	+20 + 2	59.42	61.43	+ 6 −10
9	47.03	35.58	−19 − 1	59.38	43.33	+ 3 +11	3.70	52.83	+21 − 2	59.14	61.68	− 1 − 9
10	47.53	35.78	−17 + 4	59.66	43.62	+12 + 9	3.69	53.14	+17 − 7	58.86	61.92	− 6 − 6
11	48.03	35.99	−11 + 8	59.93	43.92	+19 + 6	3.67	53.45	+11 − 9	58.57	62.16	−10 − 3
12	48.52	36.20	− 2 +11	60.19	44.21	+22 + 1	3.64	53.76	+ 4 −10	58.27	62.40	−11 + 2
13	49.00	36.41	+ 7 +10	60.44	44.51	+20 − 4	3.60	54.06	− 3 − 8	57.96	62.63	− 9 + 6
14	49.48	36.63	+15 + 8	60.68	44.81	+15 − 8	3.55	54.37	− 8 − 5	57.64	62.86	− 5 + 8
15	49.95	36.85	+20 + 4	60.91	45.11	+ 8 −10	3.50	54.67	−11 − 1	57.32	63.09	0 +10
16	50.42	37.08	+21 − 1	61.13	45.41	+ 1 −10	3.44	54.98	−10 + 3	56.99	63.31	+ 5 + 9
17	50.88	37.31	+18 − 6	61.34	45.71	− 5 − 7	3.37	55.28	− 8 + 7	56.65	63.53	+ 9 + 7
18	51.33	37.54	+12 − 9	61.55	46.01	−10 − 4	3.28	55.58	− 4 + 9	56.31	63.75	+12 + 4
19	51.77	37.77	+ 4 −10	61.74	46.32	−12 0	3.18	55.88	+ 1 +10	55.96	63.96	+13 0
20	52.21	38.01	− 3 − 9	61.93	46.62	−11 + 4	3.07	56.18	+ 6 + 9	55.60	64.17	+11 − 4
21	52.64	38.25	− 9 − 6	62.11	46.93	− 8 + 7	2.96	56.48	+10 + 6	55.23	64.37	+ 7 − 8
22	53.06	38.49	−12 − 2	62.27	47.24	− 3 + 9	2.84	56.77	+12 + 3	54.86	64.56	0 −10
23	53.48	38.74	−12 + 2	62.43	47.54	+ 2 + 9	2.71	57.06	+12 − 1	54.48	64.75	− 8 −10
24	53.89	38.99	−11 + 5	62.58	47.85	+ 7 + 8	2.57	57.35	+ 9 − 6	54.10	64.94	−15 − 9
25	54.29	39.24	− 7 + 8	{62.72 / 62.85	48.16 / 48.47	+10 +5 / +12 +1}	2.42	57.64	+ 3 − 9	53.71	65.13	−20 − 4
26	54.68	39.50	− 2 + 9	62.97	48.78	+10 − 3	2.26	57.93	− 4 −11	53.32	65.31	−21 + 1
27	55.07	39.75	+ 3 + 9	63.08	49.09	+ 7 − 7	2.09	58.22	−12 −10	52.92	65.48	−18 + 6
28	55.45	40.01	+ 8 + 7	63.19	49.40	0 −10	1.92	58.50	−19 − 7	52.51	65.65	−11 + 9
29	55.82	40.27	+11 + 4	63.28	49.71	− 7 −11	1.74	58.78	−22 − 3	52.09	65.81	− 2 +11
30	56.18	40.54	+11 0	63.37	50.02	−14 − 9	1.54	59.06	−21 + 3	51.67	65.97	+ 7 +10
31	56.54	40.81	+ 9 − 5	63.45	50.33	−20 − 5	1.34	59.33	−16 + 7	51.24	66.13	+14 + 6
32	56.89	41.08	+ 4 − 9				1.13	59.60	− 8 +10	50.81	66.28	+18 + 1

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
−87° 39′ 30″	24.475	−24.454	−87° 39′ 50″	24.533	−24.513	−87° 39′ 60″	24.562	−24.542
40	24.504	−24.483	60	24.562	−24.542	70	24.591	−24.571

$\alpha_{1929.0} = 18^h\ 13^m\ 20^s.60$ $\delta_{1929.0} = -87°\ 39'\ 43''.13$

Scheinbare Sternörter 1929

Obere Kulmination Greenwich

Sg) χ Octantis $5^m.22$

Tag	September				Oktober				November				Dezember			
	AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder	
	$18^h 13^m$	$-87° 40'$	in $0^s.01$	in $0''.01$	$18^h 13^m$	$-87° 40'$	in $0^s.01$	in $0''.01$	$18^h 13^m$	$-87° 39'$	in $0^s.01$	in $0''.01$	$18^h 13^m$	$-87° 39'$	in $0^s.01$	in $0''.01$
1	50.81	6.28	+18	+ 1	36.49	8.17	+10	− 9	22.49	64.57	−12	− 3	14.93	56.74	− 8	+ 7
2	50.38	6.42	+18	− 4	36.00	8.14	+ 3	−10	22.12	64.37	−12	+ 1	14.83	56.43	− 3	+ 9
3	49.94	6.56	+14	− 8	35.50	8.11	− 4	− 9	21.75	64.16	−11	+ 5	14.73	56.12	+ 2	+10
4	49.50	6.69	+ 8	−10	35.01	8.07	− 9	− 6	21.39	63.95	− 7	+ 8	14.64	55.81	+ 7	+ 9
5	49.06	6.82	+ 1	−10	34.52	8.02	−12	− 3	21.04	63.73	− 1	+10	14.57	55.50	+11	+ 6
6	48.61	6.94	− 6	− 8	34.03	7.97	−12	+ 3	20.70	63.51	+ 4	+10	14.50	55.18	+13	+ 2
7	48.16	7.06	−10	− 4	33.54	7.91	− 9	+ 6	20.36	63.28	+ 8	+ 8	14.45	54.86	+12	− 2
8	47.70	7.17	−12	0	33.05	7.85	− 5	+ 9	20.03	63.05	+12	+ 5	14.40	54.55	+ 8	− 6
9	47.24	7.28	−10	+ 4	32.57	7.78	+ 1	+10	19.71	62.81	+13	+ 1	14.37	54.23	+ 2	− 9
10	46.77	7.38	− 7	+ 7	32.09	7.70	+ 6	+ 9	19.40	62.57	+11	− 4	14.35	53.91	− 5	−10
11	46.30	7.48	− 2	+ 9	31.61	7.62	+10	+ 7	19.10	62.33	+ 7	− 8	14.34	53.59	−12	−10
12	45.83	7.57	+ 3	+10	31.13	7.53	+13	+ 3	18.81	62.08	0	−10	14.34	53.27	−18	− 7
13	45.35	7.65	+ 8	+ 8	30.66	7.44	+13	− 1	18.52	61.83	− 7	−11	14.35	52.94	−22	− 2
14	44.87	7.73	+11	+ 5	30.19	7.34	+10	− 5	18.24	61.58	−14	− 9	14.37	52.62	−21	+ 3
15	44.39	7.80	+13	+ 2	29.72	7.23	+ 5	− 9	17.97	61.32	−19	− 5	14.40	52.30	−16	+ 7
16	43.91	7.87	+12	− 3	29.26	7.11	− 2	−10	17.71	61.06	−21	0	14.44	51.97	− 8	+10
17	43.42	7.93	+ 9	− 7	28.80	6.99	− 9	−10	17.46	60.80	−18	+ 5	14.50	51.64	+ 2	+11
18	42.93	7.99	+ 3	−10	28.34	6.86	−15	− 8	17.22	60.53	−11	+ 9	14.56	51.32	+12	+ 9
19	42.44	8.04	− 4	−11	27.89	6.73	−19	− 3	16.99	60.26	− 2	+11	14.63	50.99	+18	+ 5
20	41.95	8.08	−12	−10	27.44	6.60	−19	+ 2	16.76	59.98	+ 7	+10	14.71	50.67	+21	0
21	41.46	8.12	−18	− 6	27.00	6.46	−15	+ 7	16.55	59.70	+15	+ 7	14.81	50.34	+19	− 5
22	40.96	8.15	−21	− 1	26.56	6.31	− 8	+10	16.34	59.42	+20	+ 3	14.91	50.02	+14	− 9
23	40.47	8.17	−19	+ 4	26.13	6.16	+ 1	+11	16.15	59.13	+20	− 2	15.03	49.69	+ 6	−10
24	39.98	8.19	−13	+ 8	25.70	6.01	+10	+ 9	15.96	58.84	+16	− 7	15.16	49.37	− 1	− 9
25	39.48	8.21	− 5	+11	25.28	5.85	+17	+ 5	15.78	58.55	+10	−10	*)15.30	49.04	− 7	− 7
26	38.98	8.22	+ 4	+11	24.86	5.69	+19	0	15.61	58.25	+ 2	−10	15.44	48.72	−11	− 2
27	38.48	8.22	+12	+ 8	24.45	5.51	+18	− 5	15.45	57.95	− 5	− 9	15.60	48.40	−11	+ 2
28	37.98	8.22	+17	+ 4	24.04	5.33	+13	− 8	15.31	57.65	−10	− 5	15.77	48.08	− 9	+ 6
29	37.48	8.21	+19	− 2	23.64	5.15	+ 6	−10	15.18	57.35	−12	− 1	15.95	47.76	− 5	+ 9
30	36.98	8.19	+16	− 6	23.25	4.96	− 2	−10	15.05	57.05	−11	+ 4	16.14	47.44	+ 1	+10
31	36.49	8.17	+10	− 9	22.87	4.77	− 8	− 7	14.93	56.74	− 8	+ 7	16.34	47.12	+ 6	+ 9
32					22.49	4.57	−12	− 3					16.55	46.80	+10	+ 7

δ	sec δ	tg δ	δ	sec δ	tg δ
−87° 39′ 40″	24.504	−24.483	−87° 40′ 0″	24.562	−24.542
50	24.533	−24.513	10	24.591	−24.571

$\alpha_{1929.0} = 18^h\ 13^m\ 20^s.60$ $\delta_{1929.0} = -87°\ 39'\ 43''.13$

*) Tag der doppelten unteren Kulmination: Dez. 25

Sh) σ Octantis $5^m.48$

Tag	Januar			Februar			März			April		
	AR	Dekl.	☾ Glieder	AR.	Dekl.	☾ Glieder	AR.	Dekl.	☾ Glieder	AR.	Dekl.	☾ Glieder
	$19^h 44^m$	−89° 11′	in $0^s.01$ | $0''.01$	$19^h 44^m$	−89° 11′	in $0^s.01$ | $0''.01$	$19^h 44^m$	−89° 11′	in $0^s.01$ | $0''.01$	$19^h 45^m$	−89° 11′	in $0^s.01$ | $0''.01$
1	$14^s.41$	$62''.01$	+48 − 5	$27^s.41$	$51''.36$	−18 − 6	$59^s.98$	$43''.13$	−28 − 4	$50^s.80$	$37''.34$	−26 + 8
2	14.40	61.66	+31 − 8	28.27	51.03	−31 − 2	61.43	42.88	−36 0	52.58	37.23	−13 + 9
3	14.42	61.31	+11 − 8	29.15	50.71	−37 + 1	62.89	42.64	−37 + 3	54.37	37.12	+ 3 + 8
4	14.46	60.97	− 8 − 7	30.06	50.38	−36 + 4	64.37	42.40	−32 + 6	56.16	37.01	+18 + 6
5	14.54	60.62	−24 − 5	30.99	50.06	−28 + 7	65.87	42.16	−21 + 8	57.95	36.91	+30 + 3
6	14.64	60.28	−34 − 1	31.95	49.74	−16 + 9	67.38	41.93	− 6 + 9	59.75	36.81	+35 − 2
7	14.77	59.93	−38 + 2	32.93	49.42	0 + 9	68.91	41.70	+10 + 8	61.55	36.72	+32 − 6
8	14.93	59.58	−35 + 6	33.94	49.11	+16 + 7	70.45	41.47	+25 + 5	63.36	36.63	+19 −10
9	15.13	59.24	−25 + 8	34.97	48.79	+30 + 4	72.00	41.25	+34 + 1	65.17	36.55	+ 1 −11
10	15.35	58.89	−11 + 9	36.02	48.48	+36 0	73.57	41.03	+36 − 3	66.98	36.47	−20 −11
11	15.60	58.54	+ 6 + 8	37.10	48.17	+34 − 5	75.15	40.82	+29 − 7	68.79	36.40	−38 − 8
12	15.88	58.19	+21 + 6	38.19	47.87	+23 − 9	76.75	40.61	+14 −10	70.60	36.33	−48 − 3
13	16.19	57.84	+31 + 2	39.31	47.57	+ 4 −11	78.36	40.41	− 7 −11	72.42	36.27	−48 + 2
14	16.53	57.50	+35 − 2	40.46	47.27	−17 −11	79.98	40.21	−28 −10	74.23	36.21	−36 + 7
15	16.90	57.15	+29 − 7	41.62	46.97	−37 − 9	81.61	40.01	−44 − 6	76.05	36.15	−15 +10
16	17.29	56.80	+14 −10	42.81	46.67	−50 − 4	83.25	39.82	−50 − 1	77.86	36.10	+10 +11
17	*)17.72	56.45	− 7 −12	44.01	46.38	−52 + 1	84.90	39.63	−46 + 4	79.67	36.06	+33 + 9
18	18.17	56.11	−28 −11	45.24	46.09	−43 + 6	86.56	39.45	−30 + 9	81.49	36.02	+49 + 5
19	18.65	55.76	−46 − 7	46.48	45.80	−23 + 9	88.24	39.27	− 8 +11	83.30	35.99	+56 + 1
20	19.16	55.42	−54 − 2	47.75	45.52	+ 1 +11	89.92	39.09	+17 +10	85.12	35.96	+51 − 4
21	19.70	55.07	−51 + 3	49.04	45.24	+25 + 9	91.62	38.92	+38 + 8	86.93	35.94	+38 − 7
22	20.27	54.73	−36 + 8	50.34	44.96	+43 + 6	93.32	38.75	+51 + 3	88.74	35.92	+19 − 9
23	20.87	54.39	−13 +10	51.67	44.69	+53 + 2	95.03	38.59	+53 − 1	90.55	35.91	− 1 − 9
24	21.49	54.04	+13 +10	53.01	44.42	+52 − 3	96.76	38.43	+45 − 5	92.35	35.90	−19 − 6
25	22.13	53.70	+36 + 8	54.37	44.16	+41 − 6	98.49	38.28	+30 − 8	94.16	35.90	−32 − 3
26	22.80	53.36	+51 + 4	55.75	43.90	+24 − 8	100.22	38.13	+11 − 9	95.96	35.90	−38 + 1
27	23.50	53.02	+56 0	57.14	43.64	+ 5 − 9	101.97	37.99	− 8 − 8	97.76	35.91	−37 + 4
28	24.23	52.69	+51 − 4	58.55	43.38	−14 − 7	103.72	37.85	−25 − 5	99.55	35.92	−31 + 7
29	24.98	52.35	+37 − 7	59.98	43.13	−28 − 4	105.48	37.72	−35 − 2	101.33	35.94	−18 + 9
30	25.76	52.02	+18 − 8				107.25	37.59	−39 + 2	103.11	35.96	− 3 + 9
31	26.57	51.69	− 1 − 8				109.02	37.46	−36 + 5	104.88	35.98	+12 + 7
32	27.41	51.36	−18 − 6				110.80	37.34	−26 + 8			

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
−89° 11′ 30″	70.884	−70.877	−89° 11′ 40″	71.128	−71.121	−89° 11′ 60″	71.622	−71.615
40	71.128	−71.121	50	71.374	−71.367	70	71.872	−71.865

$\alpha_{1929.0} = 19^h\ 46^m\ 3^s.01$ $\delta_{1929.0} = -89°\ 11'\ 49''.82$

*) Tag der doppelten unteren Kulmination: Jan. 17

Scheinbare Sternörter 1929

Obere Kulmination Greenwich

Sh) σ Octantis $5^m.48$

Tag	Mai AR.	Mai Dekl.	☾ Glieder		Juni AR.	Juni Dekl.	☾ Glieder		Juli AR.	Juli Dekl.	☾ Glieder		August AR.	August Dekl.	☾ Glieder	
	$19^h 46^m$	−89° 11′	in 0.01s	in 0.01″	$19^h 47^m$	−89° 11′	in 0.01s	in 0.01″	$19^h 48^m$	−89° 11′	in 0.01s	in 0.01″	$19^h 48^m$	−89° 11′	in 0.01s	in 0.01″
1	44.88	35.98	+12	+ 7	35.23	39.14	+26	− 7	9.12	45.95	−23	−12	21.09	55.44	−38	+ 8
2	46.65	36.01	+25	+ 4	36.64	39.31	+11	−11	9.90	46.23	−43	− 9	21.01	55.74	−14	+10
3	48.41	36.05	+32	0	38.04	39.49	− 9	−12	10.66	46.50	−55	− 5	20.90	56.05	+13	+10
4	50.17	36.09	+31	− 4	39.42	39.67	−30	−11	11.40	46.78	−57	+ 1	20.76	56.35	+37	+ 8
5	51.91	36.13	+22	− 9	40.79	39.86	−47	− 8	12.11	47.06	−47	+ 6	20.60	56.66	+52	+ 3
6	53.65	36.18	+ 6	−11	42.13	40.05	−54	− 3	12.79	47.34	−26	+ 9	20.41	56.96	+56	− 1
7	55.38	36.24	−14	−11	43.46	40.25	−50	+ 3	13.45	47.63	0	+11	20.19	57.27	+49	− 5
8	57.11	36.30	−34	− 9	44.77	40.45	−35	+ 8	14.08	47.91	+27	+10	19.94	57.57	+34	− 8
9	58.82	36.37	−48	− 5	46.06	40.65	−12	+11	14.68	48.20	+48	+ 6	19.67	57.87	+14	− 9
10	60.53	36.44	−51	0	47.33	40.86	+15	+11	15.26	48.49	+58	+ 2	19.36	58.17	− 6	− 7
11	62.23	36.51	−43	+ 5	48.58	41.07	+39	+ 9	15.81	48.78	+57	− 3	19.03	58.47	−22	− 4
12	63.92	36.59	−24	+ 9	49.81	41.28	+55	+ 5	16.34	49.07	+46	− 6	18.68	58.77	−32	− 1
13	65.60	36.67	+ 1	+11	51.03	41.50	+60	0	16.84	49.37	+28	− 8	18.29	59.06	−34	+ 3
14	67.27	36.76	+26	+10	52.22	41.72	+54	− 4	17.31	49.66	+ 7	− 8	17.88	59.35	−29	+ 7
15	68.93	36.85	+46	+ 7	53.39	41.94	+39	− 7	17.76	49.96	−12	− 6	17.45	59.64	−19	+ 9
16	70.58	36.95	+57	+ 3	54.54	42.17	+19	− 9	18.18	50.26	−26	− 3	16.98	59.92	− 5	+10
17	72.22	37.05	+57	− 2	55.67	42.40	− 2	− 8	18.57	50.56	−33	+ 1	16.49	60.21	+11	+ 9
18	73.85	37.16	+47	− 6	56.77	42.63	−19	− 5	18.94	50.87	−34	+ 4	15.97	60.49	+24	+ 6
19	75.46	37.27	+29	− 8	57.86	42.87	−32	− 2	19.27 19.58	51.17 51.47	−27 −15	+ 7 + 9	15.42	60.77	+34	+ 3
20	77.07	37.39	+ 8	− 9	58.92	43.11	−36	+ 2	19.86	51.77	0	+ 9	14.85	61.05	+38	− 2
21	78.66	37.51	−11	− 7	59.96	43.35	−34	+ 5	20.12	52.08	+15	+ 8	14.25	61.32	+32	− 6
22	80.24	37.64	−27	− 4	60.98	43.60	−25	+ 8	20.35	52.38	+27	+ 5	13.63	61.60	+18	−10
23	81.80	37.77	−36	− 1	61.98	43.85	−12	+ 9	20.55	52.69	+34	+ 1	12.98	61.87	− 2	−11
24	83.35	37.91	−38	+ 3	62.96	44.10	+ 3	+ 9	20.72	52.99	+34	− 4	12.30	62.14	−24	−11
25	84.89	38.05	−33	+ 6	63.91	44.36	+18	+ 7	20.86	53.30	+26	− 8	11.60	62.40	−44	− 8
26	86.41	38.19	−22	+ 8	64.84	44.62	+29	+ 3	20.98	53.60	+ 9	−11	10.88	62.67	−56	− 4
27	87.92	38.34	− 8	+ 9	65.74	44.88	+34	− 1	21.07	53.91	−13	−12	10.13	62.93	−57	+ 2
28	89.41	38.49	+ 7	+ 8	66.62	45.15	+30	− 6	21.13	54.21	−34	−11	9.36	63.19	−46	+ 6
29	90.89	38.65	+21	+ 5	67.48	45.41	+18	−10	21.16	54.52	−52	− 7	8.56	63.45	−25	+10
30	92.35	38.81	+30	+ 2	68.31	45.68	− 1	−12	21.16	54.83	−59	− 2	7.74	63.70	+ 1	+11
31	93.80	38.97	+32	− 3	69.12	45.95	−23	−12	21.14	55.13	−54	+ 4	6.89	63.95	+26	+ 9
32	95.23	39.14	+26	− 7					21.09	55.44	−38	+ 8	6.02	64.19	+45	+ 5

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
−89° 11′ 30″	70.884	−70.877	−89° 11′ 40″	71.128	−71.121	−89° 11′ 60″	71.622	−71.615
40	71.128	−71.121	50	71.374	−71.367	70	71.872	−71.865

$\alpha_{1929.0} = 19^h\ 46^m\ 3^s.01 \qquad \delta_{1929.0} = -89°\ 11'\ 49''.82$

Sh) σ Octantis $5^m.48$

Tag	September			Oktober			November			Dezember		
	AR.	Dekl.	☾ Glieder	AR.	Dekl.	☾ Glieder	AR.	Dekl.	☾ Glieder	AR.	Dekl.	☾ Glieder
	$19^h 47^m$	−89° 12′	in $0^s.01$ | $0''.01$	$19^h 46^m$	−89° 12′	in $0^s.01$ | $0''.01$	$19^h 46^m$	−89° 12′	in $0^s.01$ | $0''.01$	$19^h 45^m$	−89° 11′	in $0^s.01$ | $0''.01$
1	66.02	4.19	+45 + 5	90.95	9.46	+43 − 7	46.04	9.53	−24 − 5	70.17	64.13	−34 + 5
2	65.13	4.43	+53 0	89.55	9.55	+26 − 9	44.63	9.43	−34 − 2	69.28	63.87	−26 + 8
3	64.22	4.67	+50 − 4	88.14	9.64	+ 5 − 9	43.24	9.33	−36 + 2	68.41	63.61	−12 +10
4	63.28	4.90	+38 − 8	86.73	9.72	−14 − 7	41.85	9.22	−32 + 6	67.57	63.34	+ 3 + 9
5	62.32	5.13	+20 − 9	85.31	9.80	−28 − 4	40.48	9.10	−21 + 9	66.75	63.07	+18 + 8
6	61.34	5.35	0 − 8	83.88	9.87	−35 0	39.11	8.98	− 7 + 9	65.95	62.79	+29 + 4
7	60.34	5.57	−18 − 6	82.44	9.93	−35 + 4	37.75	8.85	+ 8 + 9	65.18	62.51	+34 0
8	59.32	5.79	−30 − 2	81.00	9.99	−28 + 7	36.41	8.72	+22 + 7	64.44	62.23	+33 − 4
9	58.27	6.00	−34 + 2	79.56	10.04	−16 + 9	35.08	8.58	+32 + 3	63.72	61.94	+23 − 8
10	57.21	6.21	−32 + 5	78.11	10.09	− 1 + 9	33.77	8.43	+36 − 1	63.03	61.65	+ 6 −11
11	56.12	6.41	−23 + 8	76.65	10.13	+14 + 8	32.47	8.28	+31 − 5	62.37	61.36	−15 −12
12	55.02	6.61	−10 + 9	75.18	10.16	+27 + 5	31.18	8.12	+19 − 9	61.73	61.06	−36 −10
13	53.90	6.80	+ 5 + 9	73.72	10.19	+35 + 2	29.91	7.96	+ 1 −11	61.12	60.76	−52 − 7
14	52.75	6.99	+20 + 7	72.25	10.21	+36 − 3	28.66	7.79	−20 −11	60.54	60.46	−58 − 2
15	51.59	7.18	+31 + 4	70.78	10.23	+29 − 7	27.42	7.62	−40 − 9	59.99	60.15	−53 + 4
16	50.42	7.36	+38 0	69.31	10.24	+15 −10	26.20	7.44	−52 − 5	59.46	59.84	−37 + 8
17	49.22	7.54	+36 − 4	67.84	10.24	− 5 −11	24.99	7.26	−55 + 1	58.96	59.53	−13 +11
18	48.01	7.71	+26 − 8	66.37	10.24	−26 −10	23.81	7.07	−45 + 6	58.49	59.21	+14 +11
19	46.78	7.88	+ 8 −11	64.90	10.23	−44 − 7	22.64	6.87	−25 +10	58.05	58.89	+37 + 8
20	45.54	8.04	−13 −11	63.42	10.21	−53 − 2	21.48	6.67	0 +11	57.64	58.57	+55 + 4
21	44.28	8.20	−34 − 9	61.95	10.19	−51 + 3	20.35	6.46	+26 +10	57.25	58.25	+59 − 1
22	43.01	8.35	−50 − 6	60.48	10.16	−38 + 8	19.24	6.25	+46 + 7	56.90	57.92	+51 − 5
23	41.72	8.50	−55 − 1	59.01	10.13	−16 +11	18.15	6.03	+57 + 1	56.57	57.60	+35 − 8
24	40.42	8.64	−49 + 5	57.55	10.09	+10 +11	17.07	5.81	+55 − 3	56.27	57.27	+13 − 9
25	39.10	8.77	−32 + 9	56.09	10.04	+33 + 9	16.02	5.58	+43 − 7	56.00	56.93	− 7 − 8
26	37.77	8.90	− 8 +11	54.64	9.99	+49 + 4	14.99	5.35	+24 − 9	55.76	56.60	−24 − 4
27	36.43	9.02	+17 +10	53.19	9.93	+55 − 1	13.98	5.11	+ 2 − 9	55.55	56.27	−33 0
28	35.07	9.14	+38 + 7	51.74	9.86	+49 − 5	13.00	4.87	−17 − 7	55.37	55.93	−34 + 4
29	33.71	9.25	+51 + 2	50.31	9.79	+34 − 8	12.03	4.63	−30 − 3	55.21	55.59	−28 + 7
30	32.33	9.36	+52 − 3	48.88	9.71	+13 − 9	11.09	4.38	−36 + 1	55.09	55.25	−16 + 9
31	30.95	9.46	+43 − 7	47.45	9.62	− 8 − 8	10.17	4.13	−34 + 5	55.00	54.91	− 1 +10
32				46.04	9.53	−24 − 5				54.94	54.57	+14 + 9

δ	sec δ	tg δ	δ	sec δ	tg δ
−89° 11′ 50″	71.374	−71.367	−89° 12′ 10″	71.872	−71.865
60	71.622	−71.615	20	72.123	−72.116

$\alpha_{1929.0} = 19^h\ 46^m\ 3^s.01$ $\delta_{1929.0} = -89°\ 11'\ 49''.82$

Scheinbare Sternörter 1929

Obere Kulmination Greenwich

Si) β Octantis $4^m.34$

Tag	Januar AR.	Januar Dekl.	Januar ☾ Glieder	Februar AR.	Februar Dekl.	Februar ☾ Glieder	März AR.	März Dekl.	März ☾ Glieder	April AR.	April Dekl.	April ☾ Glieder
	$22^h 38^m$	— $81° 45'$	in 0.01^s $0.01''$	$22^h 38^m$	— $81° 45'$	in 0.01^s $0.01''$	$22^h 38^m$	— $81° 45'$	in 0.01^s $0.01''$	$22^h 38^m$	— $81° 45'$	in 0.01^s $0.01''$
	s	"		s	"		s	"		s	"	
1	49.95	41.32	+6 +2	47.74	32.38	−1 −7	47.61	22.11	−2 −7	49.58	10.73	−4 +2
2	49.85	41.10	+5 −2	47.71	32.03	−3 −6	*)47.64	21.73	−3 −5	49.67	10.39	−3 +5
3	49.75	40.87	+3 −5	47.68	31.68	−4 −4	47.67	21.35	−4 −2	49.77	10.05	−2 +7
4	49.65	40.64	+1 −6	47.65	31.33	−5 −2	47.70	20.97	−5 +1	49.88	9.71	0 +7
5	49.56	40.40	−1 −7	47.62	30.98	−5 +2	47.74	20.59	−4 +4	49.98	9.38	+2 +6
6	49.46	40.15	−3 −6	47.59	30.63	−4 +4	47.78	20.21	−3 +6	50.08	9.05	+4 +3
7	49.37	39.90	−4 −4	47.56	30.28	−2 +7	47.82	19.84	−1 +7	50.19	8.72	+5 0
8	49.28	39.65	−5 0	47.54	29.92	0 +8	47.87	19.46	+1 +7	50.30	8.39	+4 −5
9	49.19	39.39	−4 +3	47.52	29.56	+2 +7	47.92	19.08	+3 +5	50.40	8.07	+3 −8
10	49.10	39.13	−3 +5	47.50	29.20	+4 +4	47.97	18.70	+4 +2	50.51	7.75	0 −11
11	49.02	38.86	−1 +7	47.48	28.84	+5 +1	48.02	18.33	+5 −2	50.63	7.43	−2 −11
12	48.94	38.59	+1 +7	47.47	28.47	+4 −4	48.07	17.95	+4 −6	50.74	7.11	−4 −9
13	48.86	38.32	+3 +6	47.46	28.10	+3 −8	48.12	17.57	+2 −9	50.86	6.80	−5 −4
14	48.78	38.04	+4 +3	47.45	27.74	+1 −11	48.18	17.20	−1 −11	50.98	6.49	−5 +1
15	48.71	37.76	+5 −1	47.44	27.37	−2 −11	48.25	16.83	−3 −10	51.10	6.19	−4 +6
16	48.63	37.47	+4 −6	47.44	27.00	−4 −10	48.31	16.46	−5 −8	51.22	5.89	−2 +10
17	48.56	37.18	+2 −10	47.44	26.63	−5 −6	48.37	16.09	−6 −3	51.34	5.59	+1 +12
18	48.49	36.88	0 −12	47.44	26.26	−6 −1	48.44	15.72	−5 +3	51.46	5.30	+4 +11
19	48.42	36.58	−3 −11	47.44	25.89	−5 +4	48.51	15.36	−3 +7	51.59	5.01	+5 +8
20	48.35	36.28	−5 −9	47.45	25.51	−2 +8	48.57	14.99	−1 +10	51.72	4.72	+6 +4
21	48.29	35.97	−6 −4	47.46	25.13	0 +11	48.64	14.62	+2 +11	51.85	4.44	+5 0
22	48.23	35.66	−5 +1	47.47	24.76	+3 +11	48.72	14.26	+4 +9	51.98	4.16	+4 −4
23	48.17	35.35	−4 +6	47.48	24.38	+5 +8	48.80	13.90	+6 +6	52.12	3.88	+2 −7
24	48.12	35.03	−1 +10	47.49	24.00	+6 +5	48.88	13.54	+6 +2	52.25	3.61	0 −7
25	48.06	34.71	+2 +11	47.51	23.62	+6 +1	48.96	13.18	+4 −2	52.39	3.34	−2 −7
26	48.01	34.39	+4 +10	47.53	23.25	+4 −3	49.04	12.83	+3 −5	52.53	3.07	−4 −5
27	47.96	34.06	+6 +8	47.55	22.87	+2 −6	49.13	12.47	+1 −7	52.66	2.81	−5 −2
28	47.91	33.73	+6 +4	47.58	22.49	0 −7	49.21	12.12	−1 −7	52.80	2.55	−5 +1
29	47.87	33.40	+5 0	47.61	22.11	−2 −7	49.30	11.77	−3 −6	52.94	2.30	−4 +4
30	47.82	33.06	+4 −4				49.39	11.42	−4 −4	53.08	2.05	−2 +6
31	47.78	32.72	+1 −6				49.48	11.07	−5 −1	53.23	1.81	0 +7
32	47.74	32.38	−1 −7				49.58	10.73	−4 +2			

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
−81° 45′ 0″	6.969	−6.897	−81° 45′ 20″	6.974	−6.902	−81° 45′ 40″	6.978	−6.906
10	6.971	−6.899	30	6.976	−6.904	50	6.981	−6.909

$\alpha_{1929.0} = 22^h\ 38^m\ 54^s.56 \qquad \delta_{1929.0} = -81°\ 45'\ 16''.94$

*) Tag der doppelten unteren Kulmination: März 2

Scheinbare Sternörter 1929

Obere Kulmination Greenwich

Si) β Octantis $4^{m}.34$

Tag	Mai			Juni			Juli			August		
	AR.	Dekl.	☾ Glieder	AR.	Dekl.	☾ Glieder	AR.	Dekl.	☾ Glieder	AR.	Dekl.	☾ Glieder
	$22^{h}\ 38^{m}$	−81° 44′	in 0.01ˢ | 0.01″	$22^{h}\ 38^{m}$	−81° 44′	in 0.01ˢ | 0.01″	$22^{h}\ 39^{m}$	−81° 44′	in 0.01ˢ | 0.01″	$22^{h}\ 39^{m}$	−81° 45′	in 0.01ˢ | 0.01″
1	53.23	61.81	0 + 7	58.14	56.53	+4 − 2	3.05	56.18	0 −12	7.11	0.70	−6 − 4
2	53.38	61.57	+1 + 6	58.31	56.44	+4 − 6	3.20	56.25	−2 −13	7.21	0.92	−6 + 1
3	53.52	61.33	+3 + 4	58.47	56.35	+2 −10	3.35	56.33	−4 −11	7.31	1.14	−4 + 6
4	53.67	61.10	+4 + 1	58.64	56.27	0 −12	3.50	56.41	−6 − 7	7.40	1.37	−1 + 9
5	53.82	60.87	+4 − 3	58.81	56.20	−3 −12	3.65	56.50	−6 − 2	7.50	1.60	+2 +10
6	53.97	60.65	+3 − 8	58.98	56.13	−5 − 9	3.80	56.59	−5 + 4	7.59	1.83	+4 +10
7	54.12	60.43	+1 −11	59.15	56.07	−6 − 4	3.94	56.69	−2 + 8	7.68	2.06	+6 + 7
8	54.27	60.22	−1 −12	59.31	56.01	−5 + 1	4.09	56.79	0 +11	7.77	2.30	+6 + 3
9	54.42	60.01	−3 −10	59.48	55.96	−4 + 7	4.24	56.90	+3 +11	7.86	2.54	+5 − 1
10	54.58	59.80	−5 − 7	59.65	55.91	−1 +11	4.38	57.01	+5 + 9	7.94	2.78	+3 − 4
11	54.73	59.60	−5 − 1	59.82	55.87	+2 +12	4.53	57.13	+6 + 6	8.02	3.03	+1 − 6
12	54.88	59.40	−4 + 4	59.98	55.84	+4 +11	4.67	57.25	+6 + 1	8.10	3.28	−1 − 6
13	55.04	59.21	−2 + 9	60.15	55.81	+6 + 8	4.80	57.38	+5 − 2	8.18	3.54	−3 − 5
14	55.20	59.02	0 +11	60.31	55.78	+6 + 4	4.94	57.51	+2 − 5	8.25	3.80	−4 − 2
15	55.35	58.84	+3 +12	60.48	55.76	+5 0	5.08	57.65	0 − 6	8.32	4.06	−5 + 1
16	55.51	58.66	+5 +10	60.64	55.75	+4 − 4	5.21	57.79	−2 − 6	8.39	4.32	−4 + 4
17	55.67	58.49	+6 + 6	60.81	55.74	+1 − 6	5.34	57.94	−4 − 4	8.45	4.58	−3 + 7
18	55.83	58.32	+6 + 2	60.97	55.73	−1 − 7	5.48	58.10	−4 − 1	8.51	4.85	−1 + 8
19	55.99	58.16	+5 − 2	61.14	55.73	−3 − 6	5.61	58.26	−5 + 2	8.57	5.12	+1 + 8
20	56.15	58.01	+3 − 5	61.30	55.74	−4 − 3	5.73	58.42	−4 + 5	8.63	5.39	+3 + 7
21	56.32	57.86	0 − 7	61.47	55.75	−5 0	5.86	58.59	−2 + 7	8.68	5.67	+4 + 4
22	56.48	57.71	−2 − 7	61.63	55.77	−4 + 3	5.98	58.76	0 + 8	8.73	5.94	+5 0
23	56.65	57.57	−3 − 5	61.79	55.80	−3 + 5	6.10	58.93	+2 + 7	8.78	6.22	+4 − 5
24	56.81	57.43	−4 − 3	61.95	55.83	−2 + 7	6.22	59.11	+3 + 5	8.83	6.50	+3 − 9
25	56.98	57.30	−5 0	62.11	55.86	0 + 7	6.34	59.30	+4 + 2	8.87	6.78	0 −11
26	57.14	57.17	−4 + 3	62.27	55.90	+2 + 6	6.46	59.49	+4 − 3	8.91	7.07	−2 −12
27	57.31	57.05	−3 + 6	62.42	55.95	+4 + 4	6.57	59.68	+3 − 7	8.95	7.35	−5 −10
28	57.47	56.93	−1 + 7	62.58	56.00	+4 0	6.68	59.87	+2 −11	8.99	7.64	−6 − 6
29	57.64	56.82	+1 + 7	62.74	56.05	+4 − 5	6.79	60.07	−1 −12	9.02	7.93	−6 − 1
30	57.80	56.72	+3 + 5	62.89	56.11	+3 − 9	6.90	60.28	−4 −12	9.05	8.22	−5 + 4
31	57.97	56.62	+4 + 2	63.05	56.18	0 −12	7.01	60.49	−6 − 9	9.08	8.51	−2 + 8
32	58.14	56.53	+4 − 2				7.11	60.70	−6 − 4	9.10 9.12	8.80 9.09	0 +10 +3 +10

δ	sec δ	tg δ	δ	sec δ	tg δ
−81° 44′ 50″	6.967	−6.895	−81° 45′ 0″	6.969	−6.897
60	6.969	−6.897	10	6.971	−6.899

$\alpha_{1929.0} = 22^{h}\ 38^{m}\ 54^{s}.56$ $\delta_{1929.0} = -81°\ 45'\ 16''.94$

Scheinbare Sternörter 1929

Obere Kulmination Greenwich

Si) β Octantis $4^m.34$

Tag	September AR.	September Dekl.	September ☾ Glieder	Oktober AR.	Oktober Dekl.	Oktober ☾ Glieder	November AR.	November Dekl.	November ☾ Glieder	Dezember AR.	Dezember Dekl.	Dezember ☾ Glieder
	$22^h\ 39^m$	$-81°\ 45'$	in $0^s.01$ $0''.01$	$22^h\ 39^m$	$-81°\ 45'$	in $0^s.01$ $0''.01$	$22^h\ 39^m$	$-81°\ 45'$	in $0^s.01$ $0''.01$	$22^h\ 38^m$	$-81°\ 45'$	in $0^s.01$ $0''.01$
1	{9.10 / 9.12	8.80 / 9.09	0 +10 / +3 +10}	8.47	17.80	+6 + 1	5.48	24.42	−1 − 7	61.49	26.05	−5 − 1
2	9.14	9.39	+5 + 7	8.41	18.07	+5 − 3	5.36	24.56	−3 − 6	61.35	26.01	−5 + 2
3	9.16	9.68	+6 + 4	8.34	18.34	+3 − 6	5.24	24.69	−4 − 3	61.22	25.96	−3 + 5
4	9.17	9.97	+5 − 1	8.27	18.60	0 − 7	5.11	24.82	−5 0	61.08	25.91	−2 + 7
5	9.18	10.27	+4 − 4	8.20	18.86	−2 − 7	4.99	24.95	−4 + 4	60.95	25.85	0 + 8
6	9.19	10.57	+2 − 6	8.12	19.12	−4 − 5	4.86	25.07	−3 + 6	60.81	25.78	+2 + 7
7	9.19	10.87	0 − 7	8.04	19.37	−4 − 2	4.74	25.18	−1 + 8	60.68	25.70	+3 + 5
8	9.19	11.17	−3 − 6	7.96	19.62	−5 + 2	4.61	25.29	+1 + 8	60.54	25.62	+4 + 1
9	9.19	11.46	−4 − 3	7.88	19.87	−3 + 5	4.48	25.39	+2 + 6	60.41	25.53	+4 − 3
10	9.18	11.76	−4 0	7.80	20.11	−2 + 7	4.35	25.48	+4 + 4	60.28	25.44	+3 − 7
11	9.17	12.05	−4 + 3	7.71	20.35	−1 + 8	4.21	25.57	+4 0	60.15	25.34	+1 −11
12	9.16	12.35	−3 + 6	7.62	20.59	+1 + 8	4.08	25.66	+4 − 5	60.02	25.24	−1 −13
13	9.15	12.65	−2 + 7	7.53	20.82	+3 + 6	3.95	25.74	+3 − 9	59.89	25.13	−3 −12
14	9.14	12.94	0 + 8	7.44	21.05	+4 + 3	3.81	25.81	+1 −11	59.76	25.01	−5 − 9
15	9.12	13.24	+2 + 7	7.35	21.27	+5 − 1	3.68	25.87	−2 −12	59.64	24.89	−6 − 4
16	9.10	13.53	+4 + 5	7.26	21.49	+4 − 6	3.54	25.93	−4 −10	59.51	24.76	−6 + 1
17	9.07	13.83	+5 + 1	7.16	21.71	+2 − 9	3.40	25.98	−6 − 7	59.38	24.63	−4 + 7
18	9.04	14.12	+5 − 3	7.06	21.92	0 −11	3.27	26.02	−6 − 1	59.25	24.49	−1 +10
19	9.01	14.41	+3 − 7	6.96	22.13	−3 −11	3.13	26.06	−5 + 4	59.13	24.34	+2 +11
20	8.98	14.70	+1 −10	6.86	22.33	−5 − 9	3.00	26.09	−2 + 8	59.01	24.19	+4 +10
21	8.95	14.99	−1 −12	6.75	22.53	−6 − 4	2.86	26.12	0 +11	58.89	24.03	+6 + 7
22	8.91	15.28	−4 −11	6.64	22.73	−5 + 1	2.72	26.14	+3 +11	58.77	23.87	+6 + 3
23	8.87	15.57	−5 − 8	6.53	22.92	−4 + 6	2.58	26.16	+5 + 9	58.66	23.70	+5 − 2
24	8.83	15.85	−6 − 3	6.42	23.11	−1 +10	2.45	26.17	+6 + 5	58.54	23.52	+3 − 5
25	8.78	16.13	−5 + 2	6.31	23.29	+1 +11	2.31	26.17	+6 0	58.43	23.34	+1 − 7
26	8.73	16.42	−3 + 7	6.20	23.47	+4 +10	2.17	26.17	+5 − 4	58.32	23.15	−1 − 6
27	8.68	16.70	0 +10	6.08	23.64	+6 + 7	2.03	26.16	+2 − 6	58.21	22.96	−3 − 5
28	8.63	16.98	+2 +10	5.97	23.81	+6 + 3	1.90	26.14	0 − 7	58.10	22.76	−4 − 2
29	8.58	17.26	+5 + 9	5.85	23.97	+5 − 2	1.76	26.11	−2 − 6	57.99	22.56	−4 + 2
30	8.53	17.53	+6 + 5	5.73	24.12	+3 − 5	1.63	26.08	−4 − 4	57.88	22.35	−4 + 5
31	8.47	17.80	+6 + 1	5.61	24.27	+1 − 7	1.49	26.05	−5 − 1	57.78	22.13	−2 + 7
32				5.48	24.42	−1 − 7				57.67	21.91	−1 + 8

δ	sec δ	tg δ	δ	sec δ	tg δ
−81° 45′ 0″	6.969	−6.897	−81° 45′ 20″	6.974	−6.902
10	6.971	−6.899	30	6.976	−6.904

$\alpha_{1929.0} = 22^h\ 38^m\ 54^s.56$ $\delta_{1929.0} = -81°\ 45'\ 16''.94$

Scheinbare Sternörter 1929

Obere Kulmination Greenwich

Sk) τ Octantis $5^m.56$

Tag	Januar AR.	Januar Dekl.	Januar ☾ Glieder	Februar AR.	Februar Dekl.	Februar ☾ Glieder	März AR.	März Dekl.	März ☾ Glieder	April AR.	April Dekl.	April ☾ Glieder
	$23^h\,17^m$	$-87°\,52'$	in $0^s.01$ $0''.01$	$23^h\,17^m$	$-87°\,52'$	in $0^s.01$ $0''.01$	$23^h\,17^m$	$-87°\,52'$	in $0^s.01$ $0''.01$	$23^h\,17^m$	$-87°\,52'$	in $0^s.01$ $0''.01$
1	59.90	47.22	+20 + 4	47.67	38.86	+ 2 − 6	43.35	28.53	− 3 − 7	46.77	16.54	−17 + 1
2	59.42	47.03	+18 0	47.40	38.52	− 5 − 6	43.32	28.14	− 9 − 6	47.02	16.17	−15 + 4
3	58.93	46.83	+14 − 3	47.14	38.18	−11 − 5	43.31	27.75	−16 − 4	47.28	15.80	−10 + 6
4	58.45	46.62	+ 7 − 6	46.88	37.84	−16 − 3	43.30	27.36	−18 − 1	47.54	15.44	− 3 + 7
5	57.97	46.41	− 1 − 7	46.63	37.49	−17 0	43.31	26.96	−17 + 2	47.81	15.08	+ 5 + 6
6	57.50	46.19	− 8 − 6	46.39	37.14	−16 + 3	43.32	26.57	−14 + 5	48.09	14.72	+12 + 4
7	57.04	45.97	−14 − 5	46.16	36.79	−12 + 6	43.34	26.18	− 8 + 7	48.38	14.36	+17 + 1
8	56.58	45.74	−17 − 2	45.94	36.44	− 5 + 7	43.37	25.79	0 + 7	48.67	14.01	+18 − 3
9	56.13	45.50	−17 + 1	45.72	36.08	+ 3 + 7	43.41	25.39	+ 8 + 6	48.97	13.65	+15 − 7
10	55.68	45.26	−15 + 4	45.51	35.72	+11 + 5	43.46	25.00	+14 + 4	49.28	13.30	+ 9 −10
11	55.24	45.02	− 9 + 6	45.31	35.36	+16 + 2	43.52	24.61	+18 0	49.60	12.95	0 −11
12	54.81	44.77	− 2 + 7	45.13	34.99	+18 − 2	*)43.59	24.22	+18 − 4	49.93	12.61	− 9 − 9
13	54.38	44.52	+ 6 + 6	44.95	34.63	+16 − 6	43.67	23.83	+13 − 8	50.26	12.27	−16 − 6
14	53.96	44.26	+13 + 4	44.78	34.26	+10 −10	43.76	23.44	+ 5 −10	50.60	11.93	−20 − 1
15	53.55	43.99	+17 0	44.62	33.89	+ 1 −11	43.85	23.05	− 4 −11	50.95	11.59	−18 + 4
16	53.15	43.72	+18 − 4	44.47	33.52	− 8 −10	43.95	22.66	−12 − 8	51.30	11.25	−12 + 9
17	52.75	43.45	+14 − 8	44.33	33.14	−15 − 7	44.06	22.27	−18 − 4	51.66	10.92	− 3 +11
18	52.36	43.18	+ 6 −11	44.20	32.77	−20 − 3	44.18	21.88	−20 + 1	52.03	10.59	+ 6 +11
19	51.97	42.90	− 3 −12	44.07	32.39	−19 + 2	44.31	21.49	−16 + 6	52.40	10.26	+14 + 9
20	51.59	42.61	−11 −10	43.96	32.01	−14 + 7	44.45	21.11	− 9 + 9	52.78	9.94	+19 + 6
21	51.22	42.32	−18 − 6	43.86	31.63	− 6 +10	44.59	20.72	0 +11	53.17	9.62	+20 + 1
22	50.86	42.02	−20 − 1	43.77	31.24	+ 4 +11	44.75	20.33	+ 9 +10	53.57	9.30	+16 − 3
23	50.50	41.72	−17 + 5	43.68	30.86	+12 + 9	44.92	19.94	+16 + 7	53.97	8.99	+11 − 6
24	50.15	41.42	−10 + 9	43.60	30.48	+18 + 6	45.09	19.56	+19 + 4	54.38	8.68	+ 3 − 7
25	49.81	41.11	− 1 +11	43.53	30.09	+20 + 2	45.27	19.18	+18 0	54.80	8.38	− 5 − 7
26	49.48	40.80	+ 8 +11	43.47	29.70	+17 − 2	45.46	18.80	+14 − 4	55.22	8.08	−11 − 6
27	49.16	40.48	+15 + 9	43.42	29.31	+12 − 5	45.66	18.42	+ 8 − 6	55.65	7.78	−17 − 3
28	48.85	40.16	+19 + 5	43.38	28.92	+ 5 − 7	45.86	18.04	0 − 7	56.08	7.48	−18 0
29	48.54	39.84	+19 + 1	43.35	28.53	− 3 − 7	46.07	17.67	− 7 − 6	56.52	7.19	−16 + 2
30	48.24	39.52	+15 − 2				46.29	17.29	−13 − 5	56.97	6.90	−12 + 5
31	47.95	39.19	+ 9 − 5				46.53	16.91	−17 − 2	57.42	6.62	− 6 + 6
32	47.67	38.86	+ 2 − 6				46.77	16.54	−17 + 1			

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
−87° 52′ 0″	26.864	−26.845	−87° 52′ 20″	26.934	−26.915	−87° 52′ 40″	27.004	−26.986
10	26.899	−26.880	30	26.969	−26.950	50	27.040	−27.021

$\alpha_{1929.0} = 23^h\ 18^m\ 7^s.66 \qquad \delta_{1929.0} = -87°\ 52'\ 21''.84$

*) Tag der doppelten unteren Kulmination: März 12

Scheinbare Sternörter 1929

Obere Kulmination Greenwich

Sk) τ Octantis $5^{m}.56$

Tag	Mai			Juni			Juli			August		
	AR.	Dekl.	☾ Glieder	AR.	Dekl.	☾ Glieder	AR.	Dekl.	☾ Glieder	AR.	Dekl.	☾ Glieder
	$23^{h}\,17^{m}$	−87° 52′	in 0.01s | 0.01″	$23^{h}\,18^{m}$	−87° 51′	in 0.01s | 0.01″	$23^{h}\,18^{m}$	−87° 51′	in 0.01s | 0.01″	$23^{h}\,18^{m}$	−87° 52′	in 0.01s | 0.01″
1	57.42	6.62	− 6 + 6	13.79	60.05	+17 − 1	31.58	58.48	+10 −11	47.72	2.01	−19 − 6
2	57.88	6.34	+ 1 + 6	14.37	59.92	+17 − 5	32.16	58.52	+ 1 −13	48.15	2.20	−21 − 1
3	58.35	6.06	+ 9 + 5	14.96	59.79	+14 − 9	32.74	58.56	− 8 −12	48.57	2.40	−17 + 5
4	58.82	5.79	+15 + 2	15.54	59.67	+ 7 −12	33.31	58.60	−16 − 9	48.99	2.60	−10 + 9
5	59.29	5.53	+18 − 2	16.13	59.55	− 3 −12	33.88	58.65	−20 − 3	49.40	2.81	0 +11
6	59.77	5.27	+17 − 6	16.72	59.44	−11 −10	34.45	58.71	−19 + 2	49.80	3.02	+ 9 +10
7	60.26	5.01	+12 −10	17.31	59.33	−17 − 6	35.02	58.77	−14 + 7	50.19	3.24	+17 + 8
8	60.75	4.75	+ 3 −11	17.90	59.23	−20 0	35.58	58.83	− 6 +10	50.58	3.46	+21 + 4
9	61.24	4.50	− 6 −11	18.50	59.14	−17 + 5	36.14	58.90	+ 4 +11	50.96	3.68	+20 0
10	61.74	4.26	−14 − 8	19.10	59.05	−11 +10	36.70	58.98	+13 +10	51.33	3.91	+15 − 3
11	62.25	4.02	−19 − 3	19.70	58.97	− 2 +12	37.25	59.07	+19 + 7	51.70	4.14	+ 8 − 6
12	62.76	3.78	−19 + 2	20.30	58.89	+ 8 +12	37.80	59.16	+21 + 3	52.05	4.37	0 − 6
13	63.27	3.55	−15 + 7	20.89	58.82	+15 + 9	38.34	59.25	+18 − 1	52.39	4.61	− 8 − 5
14	63.79	3.33	− 7 +11	21.49	58.75	+20 + 6	38.88	59.35	+12 − 4	52.72	4.85	−14 − 3
15	64.32	3.11	+ 2 +12	22.09	58.69	+20 + 1	39.41	59.46	+ 4 − 6	53.05	5.10	−17 0
16	64.85	2.89	+11 +11	22.69	58.63	+16 − 3	39.94	59.57	− 3 − 6	53.37	5.35	−17 + 3
17	65.38	2.67	+17 + 8	23.29	58.58	+10 − 5	40.47	59.68	−10 − 5	53.68	5.60	−14 + 5
18	65.91	2.46	+20 + 4	23.88	58.54	+ 3 − 6	40.99	59.80	−15 − 2	53.98	5.85	− 9 + 7
19	66.45	2.26	+18 − 1	24.48	58.50	− 6 − 6	41.51	59.93	−17 0	54.28	6.11	− 2 + 8
20	67.00	2.06	+13 − 4	25.08	58.47	−12 − 4	42.02	60.06	−16 + 3	54.56	6.37	+ 6 + 7
21	67.55	1.86	+ 6 − 6	25.68	58.44	−16 − 2	42.53	60.20	−12 + 6	54.83	6.63	+13 + 5
22	68.10	1.67	− 2 − 7	26.27	58.42	−17 + 1	43.03	60.34	− 7 + 7	55.10	6.90	+17 + 1
23	68.66	1.49	− 9 − 6	26.87	58.40	−15 + 4	43.53	60.48	+ 1 + 7	55.36	7.17	+18 − 3
24	69.22	1.31	−14 − 4	27.46	58.39	−11 + 6	44.02	60.63	+ 8 + 6	55.60	7.44	+15 − 8
25	69.78	1.13	−17 − 1	28.05	58.39	− 4 + 7	44.50	60.79	+15 + 3	55.84	7.72	+ 8 −11
26	70.35	0.96	−17 + 2	28.65	58.39	+ 3 + 6	44.98	60.95	+18 − 1	56.06	8.00	− 1 −12
27	70.91	0.80	−14 + 4	29.24	58.40	+11 + 4	45.45	61.11	+17 − 6	56.27	8.28	−10 −11
28	71.48	0.64	− 9 + 6	29.83	58.41	+16 + 1	45.92	61.28	+13 − 9	56.48	8.56	−17 − 8
29	72.05	0.48	− 2 + 7	30.42	58.43	+18 − 3	46.38	61.46	+ 5 −12	56.68	8.84	−21 − 3
30	72.63	0.33	+ 6 + 6	31.00	58.45	+16 − 8	46.83	61.64	− 4 −12	56.86	9.12	−19 + 2
31	73.21	0.19	+13 + 3	31.58	58.48	+10 −11	47.28	61.82	−13 −10	57.03	9.41	−13 + 7
32	73.79	0.05	+17 − 1				47.72	62.01	−19 − 6	57.20	9.70	− 4 +10

δ	sec δ	tg δ	δ	sec δ	tg δ
−87° 51′ 50″	26.829	−26.810	−87° 52′ 0″	26.864	−26.845
60	26.864	−26.845	10	26.899	−26.880

$\alpha_{1929.0} = 23^{h}\ 18^{m}\ 7^{s}.66$ $\delta_{1929.0} = -87°\ 52'\ 21''.84$

Sk) τ Octantis $5^m.56$

Tag	September			Oktober			November			Dezember		
	AR.	Dekl.	☾ Glieder	AR.	Dekl.	☾ Glieder	AR.	Dekl.	☾ Glieder	AR.	Dekl.	☾ Glieder
	$23^h 18^m$	$-87° 52'$	in 0.01^s $0.01''$	$23^h 18^m$	$-87° 52'$	in 0.01^s $0.01''$	$23^h 18^m$	$-87° 52'$	in 0.01^s $0.01''$	$23^h 18^m$	$-87° 52'$	in 0.01^s $0.01''$
1	$57^s.20$	$9''.70$	− 4 +10	$57^s.04$	19.03	+20 + 2	$47^s.12$	$26''.63$	0 − 7	$31^s.41$	$29''.49$	−16 − 2
2	57.36	9.99	+ 5 +10	56.86	19.32	+18 − 2	46.67	26.81	− 7 − 6	30.85	29.49	−18 + 1
3	57.50	10.29	+14 + 9	56.68	19.61	+13 − 5	46.21	26.98	−13 − 4	30.28	29.48	−16 + 4
4	57.64	10.58	+19 + 5	56.49	19.89	+ 6 − 7	45.74	27.15	−17 − 1	29.71	29.47	−12 + 6
5	57.76	10.88	+20 + 1	56.28	20.18	− 3 − 7	45.27	27.31	−17 + 2	29.14	29.45	− 5 + 7
6	57.87	11.18	+17 − 3	56.06	20.46	−10 − 6	44.79	27.47	−15 + 5	28.57	29.42	+ 2 + 7
7	57.98	11.48	+11 − 5	55.83	20.74	−15 − 3	44.30	27.62	−10 + 7	28.00	29.39	+ 9 + 5
8	58.08	11.78	+ 3 − 6	55.59	21.02	−17 0	43.81	27.76	− 3 + 7	27.43	29.35	+15 + 2
9	58.16	12.08	− 5 − 6	55.35	21.29	−16 + 3	43.32	27.90	+ 5 + 7	26.86	29.30	+17 − 2
10	58.23	12.39	−12 − 4	55.09	21.56	−13 + 6	42.82	28.04	+12 + 5	26.30	29.24	+16 − 6
11	{58.29 {58.34	12.69 12.99	−16 − 2} −17 + 1}	54.82	21.83	− 7 + 7	42.31	28.17	+17 + 1	25.73	29.18	+12 −10
12	58.38	13.30	−15 + 4	54.54	22.10	0 + 8	41.80	28.29	+18 − 3	25.17	29.11	+ 4 −12
13	58.41	13.60	−11 + 7	54.26	22.36	+ 7 + 6	41.29	28.41	+16 − 7	24.60	29.04	− 5 −12
14	58.42	13.90	− 5 + 8	53.97	22.62	+14 + 4	40.77	28.53	+10 −10	24.04	28.96	−13 −10
15	58.42	14.21	+ 3 + 7	53.66	22.88	+17 0	40.24	28.64	+ 1 −12	23.48	28.87	−19 − 6
16	58.42	14.51	+10 + 6	53.34	23.13	+18 − 4	39.71	28.74	− 8 −11	22.92	28.78	−21 0
17	58.41	14.82	+16 + 3	53.01	23.38	+14 − 8	39.18	28.83	−16 − 8	22.36	28.68	−17 + 5
18	58.38	15.13	+18 − 1	52.67	23.63	+ 7 −11	38.64	28.92	−20 − 3	21.81	28.57	−10 + 9
19	58.34	15.43	+17 − 6	52.33	23.87	− 2 −11	38.10	29.00	−20 + 2	21.26	28.46	0 +11
20	58.29	15.74	+12 − 9	51.98	24.11	−11 −10	37.55	29.07	−15 + 7	20.72	28.34	+ 9 +11
21	58.23	16.05	+ 3 −11	51.62	24.34	−18 − 6	37.00	29.14	− 6 +11	20.18	28.22	+17 + 8
22	58.16	16.35	− 6 −11	51.25	24.57	−21 − 1	36.45	29.21	+ 4 +12	19.64	28.09	+21 + 4
23	58.08	16.65	−14 − 9	50.87	24.80	−18 + 4	35.90	29.27	+13 +10	19.10	27.95	+20 0
24	57.99	16.95	−19 − 4	50.48	25.02	−11 + 9	35.35	29.32	+19 + 7	18.56	27.81	+15 − 4
25	57.89	17.25	−20 + 1	50.09	25.24	− 2 +11	34.79	29.36	+21 + 2	18.03	27.66	+ 8 − 6
26	57.77	17.55	−16 + 6	49.69	25.45	+ 7 +10	34.23	29.40	+18 − 2	17.50	27.51	− 1 − 6
27	57.65	17.85	− 8 + 9	49.28	25.66	+15 + 8	33.67	29.43	+12 − 5	16.98	27.35	− 9 − 5
28	57.51	18.15	+ 1 +10	48.86	25.86	+20 + 4	33.11	29.46	+ 4 − 7	16.46	27.18	−14 − 3
29	57.37	18.45	+11 + 9	48.43	26.06	+20 0	32.54	29.48	− 4 − 7	15.95	27.01	−17 0
30	57.21	18.74	+18 + 7	48.00	26.26	+16 − 4	31.98	29.49	−11 − 5	15.44	26.83	−17 + 3
31	57.04	19.03	+20 + 2	47.56	26.45	+ 9 − 7	31.41	29.49	−16 − 2	14.93	26.65	−14 + 6
32				47.12	26.63	0 − 7				14.43	26.46	− 8 + 8

δ	sec δ	tg δ	δ	sec δ	tg δ
−87° 52′ 0″	26.864	−26.845	−87° 52′ 20″	26.934	−26.915
10	26.899	−26.880	30	26.969	−26.950

$\alpha_{1929.0} = 23^h\ 18^m\ 7^s.66$ $\delta_{1929.0} = -87°\ 52'\ 21''.84$

Polnahe Sterne 1929

Scheinbare Koordinaten für 12h Sternzeit Greenwich

Tag	BD +89° 1 Gr. 10.56m		BD +89° 3 Gr. 9.06m		BD +89° 37 Gr. 10.06m		CPD −89° 38 Gr. 9.5m		Kurzperiod. Mondgl.*)	
1929	x	y	x	y	x	y	x	y	in 0.01"	
Jan. 0	−73.52"	+71.96"	+127.94"	+856.15"	−856.41"	−350.40"	−275.16"	−307.91"	−11	−5
1	73.53	71.62	127.93	855.81	856.42	350.74	275.02	308.22	−8	−8
2	73.54	71.27	127.92	855.46	856.43	351.09	274.88	308.53	−4	−10
3	73.54	70.93	127.92	855.12	856.43	351.43	274.73	308.84	0	−9
4	73.53	70.59	127.92	854.78	856.43	351.77	274.57	309.15	+4	−7
5	−73.52	+70.25	+127.93	+854.44	−856.42	−352.11	−274.41	−309.46	+6	−3
6	73.50	69.91	127.95	854.10	856.40	352.45	274.24	309.77	+7	+1
7	73.47	69.58	127.98	853.77	856.37	352.78	274.07	310.07	+6	+4
8	73.44	69.24	128.01	853.44	856.34	353.12	273.89	310.37	+5	+7
9	73.40	68.90	128.05	853.10	856.30	353.46	273.70	310.67	+2	+9
10	−73.36	+68.56	+128.10	+852.77	−856.26	−353.80	−273.51	−310.97	−1	+9
11	73.31	68.23	128.15	852.44	856.21	354.13	273.31	311.26	−4	+8
12	73.25	67.90	128.21	852.11	856.16	354.46	273.11	311.55	−6	+5
13	73.19	67.57	128.27	851.78	856.10	354.79	272.90	311.83	−7	+1
14	73.12	67.24	128.34	851.45	856.03	355.12	272.69	312.12	−6	−4
15	−73.04	+66.92	+128.42	+851.12	−855.95	−355.44	−272.47	−312.40	−3	−8
16	72.96	66.59	128.50	850.80	855.87	355.77	272.24	312.68	0	−10
17	72.87	66.27	128.59	850.48	855.78	356.09	272.01	312.96	+5	−10
18	72.77	65.95	128.68	850.16	855.68	356.41	271.78	313.23	+9	−8
19	72.67	65.63	128.78	849.84	855.58	356.73	271.54	313.50	+11	−4
20	−72.56	+65.32	+128.89	+849.53	−855.47	−357.04	−271.29	−313.77	+11	+1
21	72.44	65.01	129.00	849.22	855.35	357.35	271.04	314.03	+9	+6
22	72.32	64.70	129.12	848.92	855.23	357.66	270.78	314.29	+6	+9
23	72.20	64.40	129.25	848.61	855.11	357.97	270.52	314.55	0	+10
24	72.07	64.09	129.38	848.31	854.98	358.27	270.26	314.80	−5	+9
25	−71.93	+63.79	+129.51	+848.01	−854.84	−358.57	−269.99	−315.05	−9	+6
26	71.79	63.50	129.65	847.71	854.70	358.87	269.72	315.30	−11	+1
27	71.64	63.20	129.80	847.42	854.55	359.17	269.44	315.54	−11	−4
28	71.49	62.91	129.96	847.13	854.39	359.46	269.16	315.78	−8	−8
29	71.33	62.62	130.12	846.84	854.23	359.75	268.87	316.02	−5	−10
30	−71.16	+62.34	+130.29	+846.56	−854.06	−360.03	−268.58	−316.25	−1	−10
31	70.99	62.06	130.46	846.28	853.89	360.31	268.28	316.48	+3	−8
Febr. 1	70.81	61.79	130.63	846.00	853.71	360.58	267.98	316.70	+5	−5
2	70.63	61.52	130.81	845.73	853.53	360.85	267.67	316.92	+7	−1
3	70.44	61.25	131.00	845.46	853.34	361.12	267.37	317.13	+6	+3
4	−70.25	+60.99	+131.19	+845.20	−853.15	−361.39	−267.06	−317.34	+5	+6
5	70.05	60.73	131.39	844.94	852.95	361.65	266.74	317.55	+3	+9
6	−69.85	+60.47	+131.59	+844.69	−852.75	−361.91	−266.42	−317.75	0	+10
Mittl. Ort	−58.95"	+79.34"	+142.46"	+863.55"	−841.82"	−343.05"	−249.32"	−309.23"		

Die Werte von x und y enthalten **nicht** die kurzperiodischen Mondglieder.

*) Die Vorzeichen gelten für die drei nördlichen Sterne, für den südlichen sind sie umzukehren.

Polnahe Sterne 1929

Scheinbare Koordinaten für 12^h Sternzeit Greenwich

Tag	BD +89° 1 Gr. $10^m.56$		BD +89° 3 Gr. $9^m.06$		BD +89° 37 Gr. $10^m.06$		CPD −89° 38 Gr. $9^m.5$		Kurzperiod. Mondgl.*)	
1929	x	y	x	y	x	y	x	y	in 0.″01	
Febr. 6	−69.″85	+60.″47	+131.″59	+844.″69	−852.″75	−361.″91	−266.″42	−317.″75	0	+10
7	69.64	60.22	131.80	844.44	852.54	362.16	266.10	317.95	− 3	+ 9
8	69.43	59.97	132.01	844.19	852.33	362.41	265.77	318.14	− 6	+ 6
9	69.21	59.73	132.23	843.95	852.11	362.65	265.44	318.33	− 7	+ 2
10	68.99	59.49	132.45	843.71	851.89	362.89	265.11	318.51	− 7	− 2
11	−68.76	+59.26	+132.68	+843.48	−851.66	−363.13	−264.77	−318.69	− 5	− 6
12	68.53	59.03	132.91	843.26	851.43	363.36	264.43	318.87	− 2	−10
13	68.29	58.81	133.15	843.04	851.19	363.58	264.09	319.04	+ 3	−11
14	68.05	58.59	133.39	842.82	850.95	363.80	263.74	319.21	+ 7	− 9
15	67.81	58.38	133.63	842.61	850.71	364.01	263.39	319.37	+10	− 6
16	−67.56	+58.17	+133.88	+842.40	−850.46	−364.22	−263.04	−319.53	+11	− 1
17	67.31	57.97	134.13	842.20	850.21	364.42	262.69	319.68	+10	+ 4
18	67.06	57.77	134.38	842.00	849.96	364.62	262.33	319.83	+ 7	+ 8
19	66.80	57.58	134.64	841.81	849.70	364.81	261.97	319.97	+ 2	+10
20	66.53	57.39	134.91	841.62	849.44	365.00	261.61	320.11	− 3	+10
21	−66.27	+57.21	+135.17	+841.44	−849.17	−365.18	−261.24	−320.25	− 8	+ 7
22	66.00	57.04	135.44	841.27	848.90	365.35	260.87	320.38	−10	+ 3
23	65.73	56.87	135.71	841.10	848.63	365.52	260.50	320.50	−11	− 2
24	65.45	56.71	135.99	840.94	848.36	365.68	260.13	320.62	− 9	− 6
25	65.17	56.55	136.27	840.78	848.08	365.84	259.76	320.74	− 6	− 9
26	−64.89	+56.40	+136.55	+840.63	−847.80	−365.99	−259.39	−320.85	− 2	−10
27	64.60	56.25	136.84	840.48	847.51	366.14	259.01	320.95	+ 2	− 9
28	64.31	56.11	137.13	840.34	847.22	366.28	258.63	321.05	+ 5	− 6
März 1	64.02	55.98	137.42	840.21	846.93	366.41	258.25	321.15	+ 6	− 2
2	63.73	55.85	137.71	840.08	846.64	366.54	257.87	321.24	+ 7	+ 2
3	−63.43	+55.73	+138.00	+839.96	−846.34	−366.66	−257.48	−321.33	+ 6	+ 5
4	63.14	55.61	138.30	839.84	846.05	366.78	257.10	321.41	+ 4	+ 8
5	62.84	55.50	138.59	839.73	845.75	366.89	256.71	321.49	+ 1	+ 9
6	62.54	55.40	138.89	839.63	845.45	366.99	256.33	321.56	− 2	+ 9
7	62.24	55.30	139.19	839.53	845.15	367.09	255.94	321.62	− 5	+ 7
8	−61.94	+55.21	+139.49	+839.44	−844.85	−367.18	−255.55	−321.68	− 6	+ 4
9	61.63	55.12	139.80	839.35	844.54	367.27	255.16	321.74	− 7	0
10	61.32	55.04	140.11	839.27	844.23	367.35	254.77	321.79	− 6	− 5
11	61.02	54.97	140.41	839.20	843.92	367.42	254.37	321.84	− 3	− 8
12	60.71	54.91	140.72	839.14	843.61	367.49	253.98	321.88	+ 1	−10
13	−60.40	+54.85	+141.03	+839.08	−843.30	−367.55	−253.59	−321.92	+ 5	−10
14	60.09	54.79	141.34	839.02	842.99	367.60	253.19	321.95	+ 8	− 7
15	−59.78	+54.74	+141.65	+838.97	−842.68	−367.65	−252.80	−321.98	+10	− 3
Mittl. Ort	−58.″95	+79.″34	+142.″46	+863.″55	−841.″82	−343.″05	−249.″32	−309.″23		

Die Werte von x und y enthalten **nicht** die kurzperiodischen Mondglieder.

*) Die Vorzeichen gelten für die drei nördlichen Sterne, für den südlichen sind sie umzukehren.

Polnahe Sterne 1929

Scheinbare Koordinaten für 12h Sternzeit Greenwich

Tag	BD +89° 1 Gr. 10.56m		BD +89° 3 Gr. 9.06m		BD +89° 37 Gr. 10.06m		CPD −89° 38 Gr. 9.5m		Kurzperiod. Mondgl.*)	
1929	x	y	x	y	x	y	x	y	in 0.01"	
März 15	−59.78"	+54.74"	+141.65"	+838.97"	−842.68"	−367.65"	−252.80"	−321.98"	+10	− 3
16	59.47	54.70	141.96	838.93	842.37	367.69	252.41	322.00	+10	+ 2
17	59.16	54.66	142.27	838.89	842.05	367.73	252.01	322.01	+ 8	+ 7
18	58.84	54.63	142.59	838.86	841.74	367.76	251.62	322.02	+ 3	+10
19	58.53	54.61	142.90	838.84	841.43	367.78	251.22	322.03	− 2	+11
20	−58.22	+54.60	+143.21	+838.83	−841.11	−367.80	−250.82	−322.03	− 6	+ 9
21	57.90	54.59	143.53	838.82	840.80	367.81	250.43	322.03	−10	+ 5
22	57.59	54.59	143.84	838.82	840.49	367.81	250.03	322.02	−11	0
23	57.28	54.59	144.15	838.82	840.17	367.81	249.64	322.01	−10	− 5
23	56.97	54.60	144.46	838.83	839.86	367.80	249.25	321.99	− 7	− 8
24	−56.66	+54.61	+144.77	+838.84	−839.55	−367.79	−248.85	−321.97	− 3	−10
25	56.35	54.63	145.08	838.86	839.24	367.77	248.46	321.94	+ 1	− 9
26	56.04	54.66	145.39	838.89	838.93	367.74	248.07	321.91	+ 4	− 7
27	55.74	54.69	145.69	838.92	838.63	367.71	247.67	321.87	+ 6	− 4
28	55.43	54.73	146.00	838.96	838.32	367.67	247.28	321.82	+ 7	0
29	−55.12	+54.78	+146.31	+839.01	−838.01	−367.62	−246.89	−321.77	+ 7	+ 4
30	54.81	54.83	146.62	839.06	837.70	367.57	246.50	321.72	+ 5	+ 7
31	54.51	54.89	146.92	839.12	837.40	367.51	246.11	321.67	+ 2	+ 9
1	54.21	54.95	147.22	839.18	837.10	367.45	245.73	321.61	− 1	+ 9
April 2	53.91	55.02	147.52	839.25	836.80	367.38	245.34	321.54	− 3	+ 8
3	−53.61	+55.09	+147.82	+839.32	−836.50	−367.31	−244.96	−321.47	− 6	+ 5
4	53.32	55.17	148.11	839.40	836.21	367.23	244.57	321.39	− 7	+ 1
5	53.02	55.26	148.41	839.49	835.91	367.14	244.19	321.31	− 6	− 3
6	52.73	55.35	148.70	839.58	835.62	367.05	243.81	321.22	− 4	− 7
7	52.44	55.45	148.99	839.68	835.33	366.95	243.43	321.13	− 1	−10
8	−52.15	+55.56	+149.28	+839.79	−835.04	−366.84	−243.05	−321.03	+ 4	−11
9	51.86	55.67	149.56	839.90	834.75	366.73	242.67	320.93	+ 7	− 9
10	51.58	55.78	149.84	840.01	834.47	366.62	242.30	320.83	+10	− 5
11	51.30	55.90	150.12	840.13	834.19	366.50	241.93	320.72	+10	0
12	51.03	56.03	150.40	840.26	833.92	366.37	241.56	320.61	+ 9	+ 5
13	−50.75	+56.16	+150.67	+840.39	−833.64	−366.24	−241.19	−320.49	+ 5	+ 9
14	50.48	56.30	150.94	840.53	833.37	366.10	240.83	320.37	0	+11
15	50.21	56.44	151.21	840.67	833.10	365.96	240.46	320.24	− 5	+10
16	49.94	56.59	151.48	840.82	832.83	365.81	240.10	320.11	− 9	+ 7
17	49.68	56.74	151.74	840.97	832.57	365.66	239.74	319.97	−11	+ 2
18	−49.42	+56.90	+152.00	+841.13	−832.31	−365.50	−239.38	−319.83	−11	− 3
19	49.17	57.06	152.25	841.29	832.06	365.34	239.03	319.69	− 9	− 7
20	−48.92	+57.23	+152.50	+841.46	−831.81	−365.17	−238.68	−319.54	− 5	− 9
Mittl. Ort	−58.95"	+79.34"	+142.46"	+863.55"	−841.82"	−343.05"	−249.32"	−309.23"		

Die Werte von x und y enthalten **nicht** die kurzperiodischen Mondglieder.

*) Die Vorzeichen gelten für die drei nördlichen Sterne, für den südlichen sind sie umzukehren.

Polnahe Sterne 1929

Scheinbare Koordinaten für 12^h Sternzeit Greenwich

Tag	BD +89° 1 Gr. 10.56^m		BD +89° 3 Gr. 9.06^m		BD +89° 37 Gr. 10.06^m		CPD −89° 38 Gr. 9.5^m		Kurzperiod. Mondgl.*)	
1929	x	y	x	y	x	y	x	y	in 0.01"	
April 20	−48.92"	+57.23"	+152.50"	+841.46"	−831.81"	−365.17"	−238.68"	−319.54"	− 5	− 9
21	48.67	57.40	152.75	841.64	831.56	364.99	238.33	319.39	− 1	−10
22	48.43	57.58	152.99	841.82	831.32	364.81	237.99	319.23	+ 3	− 8
23	48.19	57.76	153.23	842.00	831.08	364.63	237.64	319.07	+ 6	− 5
24	47.95	57.95	153.47	842.18	830.84	364.45	237.30	318.90	+ 7	− 1
25	−47.72	+58.14	+153.70	+842.37	−830.61	−364.26	−236.97	−318.73	+ 7	+ 3
26	47.49	58.34	153.93	842.57	830.38	364.06	236.63	318.56	+ 6	+ 6
27	47.26	58.54	154.16	842.77	830.15	363.86	236.30	318.38	+ 3	+ 9
28	47.04	58.75	154.38	842.97	829.93	363.65	235.97	318.20	0	+ 9
29	46.82	58.96	154.59	843.18	829.71	363.44	235.64	318.01	− 3	+ 9
30	−46.61	+59.17	+154.80	+843.39	−829.50	−363.23	−235.32	−317.82	− 5	+ 6
Mai 1	46.41	59.39	155.01	843.61	829.29	363.01	235.01	317.62	− 6	+ 3
2	46.21	59.62	155.21	843.83	829.09	362.79	234.69	317.42	− 6	− 2
3	46.01	59.84	155.41	844.06	828.90	362.56	234.38	317.22	− 5	− 6
4	45.81	60.07	155.60	844.29	828.71	362.34	234.07	317.02	− 2	− 9
5	−45.62	+60.30	+155.79	+844.52	−828.52	−362.11	−233.77	−316.81	+ 2	−10
6	45.44	60.54	155.97	844.76	828.33	361.87	233.47	316.60	+ 7	−10
7	45.26	60.78	156.15	845.00	828.14	361.63	233.17	316.38	+10	− 7
8	45.09	61.02	156.32	845.24	827.97	361.39	232.88	316.16	+11	− 2
9	44.92	61.27	156.49	845.49	827.80	361.14	232.59	315.94	+10	+ 3
10	−44.75	+61.53	+156.65	+845.75	−827.63	−360.89	−232.30	−315.71	+ 7	+ 8
11	44.59	61.78	156.81	846.00	827.47	360.63	232.02	315.48	+ 2	+10
12	44.44	62.04	156.96	846.26	827.32	360.38	231.74	315.25	− 3	+10
13	44.29	62.30	157.11	846.52	827.17	360.12	231.47	315.01	− 8	+ 8
14	44.15	62.56	157.25	846.78	827.02	359.86	231.20	314.77	−11	+ 4
15	−44.01	+62.82	+157.39	+847.04	−826.88	−359.60	−230.94	−314.53	−12	− 1
16	43.88	63.09	157.52	847.31	826.75	359.33	230.68	314.28	−10	− 6
17	43.75	63.36	157.65	847.58	826.62	359.06	230.42	314.03	− 7	− 9
18	43.63	63.63	157.77	847.85	826.50	358.79	230.17	313.78	− 3	−10
19	43.52	63.91	157.89	848.13	826.38	358.51	229.92	313.52	+ 1	− 9
20	−43.41	+64.19	+158.00	+848.41	−826.27	−358.23	−229.68	−313.26	+ 4	− 7
21	43.30	64.47	158.11	848.69	826.17	357.95	229.44	313.00	+ 6	− 3
22	43.20	64.75	158.21	848.97	826.07	357.67	229.21	312.73	+ 7	+ 1
23	43.11	65.04	158.30	849.26	825.97	357.38	228.98	312.47	+ 6	+ 5
24	43.02	65.32	158.39	849.54	825.88	357.10	228.75	312.20	+ 4	+ 8
25	−42.93	+65.61	+158.47	+849.83	−825.80	−356.81	−228.53	−311.93	+ 1	+ 9
26	42.85	65.90	158.55	850.12	825.72	356.52	228.31	311.65	− 2	+ 9
27	−42.78	+66.19	+158.62	+850.41	−825.64	−356.23	−228.10	−311.37	− 4	+ 7
Mittl. Ort	−58.95"	+79.34"	+142.46"	+863.55"	−841.82"	−343.05"	−249.32"	−309.23"		

Die Werte von x und y enthalten **nicht** die kurzperiodischen Mondglieder.

*) Die Vorzeichen gelten für die drei nördlichen Sterne, für den südlichen sind sie umzukehren.

Polnahe Sterne 1929

Scheinbare Koordinaten für 12^h Sternzeit Greenwich

Tag	BD +89° 1 Gr. $10^m.56$		BD +89° 3 Gr. $9^m.06$		BD +89° 37 Gr. $10^m.06$		CPD −89° 38 Gr. $9^m.5$		Kurzperiod. Mondgl.*)	
1929	x	y	x	y	x	y	x	y	in 0".01	
Mai 27	−42.78	+66.19	+158.62	+850.41	−825.64	−356.23	−228.10	−311.37	− 4	+ 7
28	42.71	66.49	158.69	850.70	825.57	355.93	227.89	311.09	− 6	+ 4
29	42.65	66.78	158.75	851.00	825.51	355.64	227.69	310.81	− 6	0
30	42.60	67.08	158.80	851.30	825.45	355.34	227.50	310.52	− 5	− 4
31	42.55	67.38	158.85	851.59	825.40	355.04	227.31	310.23	− 3	− 8
Juni 1	−42.50	+67.68	+158.89	+851.89	−825.36	−354.74	−227.12	−309.94	+ 1	−10
2	42.46	67.98	158.93	852.19	825.32	354.44	226.94	309.65	+ 6	−10
3	42.43	68.28	158.96	852.49	825.29	354.14	226.77	309.36	+ 9	− 8
4	42.40	68.58	158.99	852.79	825.26	353.84	226.60	309.07	+11	− 4
5	42.38	68.89	159.01	853.09	825.24	353.53	226.43	308.77	+11	+ 1
6	−42.37	+69.19	+159.02	+853.40	−825.22	−353.23	−226.27	−308.47	+ 9	+ 6
7	42.36	69.50	159.03	853.71	825.21	352.92	226.11	308.17	+ 5	+ 9
8	42.35	69.80	159.03	854.02	825.20	352.62	225.96	307.86	− 1	+11
9	42.35	70.11	159.03	854.33	825.20	352.31	225.82	307.56	− 6	+ 9
10	42.36	70.42	159.02	854.64	825.21	352.01	225.68	307.25	−10	+ 6
11	−42.38	+70.72	+159.01	+854.95	−825.23	−351.70	−225.54	−306.94	−12	+ 1
12	42.40	71.03	158.99	855.26	825.25	351.39	225.41	306.64	−12	− 4
13	42.42	71.34	158.96	855.56	825.27	351.08	225.29	306.33	− 9	− 8
14	42.45	71.64	158.93	855.87	825.30	350.78	225.17	306.02	− 5	−10
15	42.49	71.95	158.89	856.17	825.34	350.47	225.06	305.71	− 1	−10
16	−42.53	+72.25	+158.85	+856.47	−825.38	−350.16	−224.96	−305.39	+ 3	− 8
17	42.58	72.56	158.80	856.78	825.43	349.85	224.86	305.07	+ 5	− 4
18	42.63	72.86	158.75	857.09	825.48	349.55	224.76	304.76	+ 7	0
19	42.69	73.17	158.69	857.40	825.54	349.24	224.67	304.44	+ 6	+ 4
20	42.76	73.47	158.62	857.70	825.60	348.94	224.59	304.13	+ 5	+ 7
21	−42.83	+73.78	+158.55	+858.01	−825.67	−348.64	−224.51	−303.81	+ 2	+ 9
22	42.91	74.08	158.47	858.31	825.75	348.33	224.43	303.49	− 1	+10
23	42.99	74.39	158.39	858.62	825.83	348.03	224.36	303.17	− 4	+ 8
24	43.08	74.69	158.30	858.92	825.92	347.73	224.30	302.86	− 6	+ 6
25	43.17	75.00	158.21	859.22	826.01	347.42	224.25	302.54	− 7	+ 2
26	−43.27	+75.30	+158.11	+859.52	−826.11	−347.12	−224.20	−302.22	− 6	− 3
27	43.38	75.60	158.00	859.82	826.22	346.82	224.15	301.90	− 4	− 7
28	43.49	75.90	157.89	860.12	826.33	346.52	224.11	301.58	0	−10
29	43.60	76.20	157.78	860.41	826.44	346.22	224.08	301.26	+ 4	−11
30	43.72	76.50	157.66	860.71	826.56	345.93	224.06	300.94	+ 8	− 9
Juli 1	−43.85	+76.79	+157.53	+861.00	−826.69	−345.63	−224.04	−300.62	+11	− 6
2	43.98	77.09	157.40	861.30	826.82	345.34	224.02	300.30	+12	− 1
3	−44.12	+77.38	+157.26	+861.59	−826.95	−345.04	−224.01	−299.98	+11	+ 4
Mittl. Ort	−58.95	+79.34	+142.46	+863.55	−841.82	−343.05	−249.32	−309.23		

Die Werte von x und y enthalten **nicht** die kurzperiodischen Mondglieder.

Die Vorzeichen gelten für die drei nördlichen Sterne, für den südlichen sind sie umzukehren.

Polnahe Sterne 1929

Scheinbare Koordinaten für 12^h Sternzeit Greenwich

Tag	BD +89° 1 Gr. 10.^{m}56		BD +89° 3 Gr. 9.^{m}06		BD +89° 37 Gr. 10.^{m}06		CPD −89° 38 Gr. 9.^{m}5		Kurzperiod. Mondgl.*)	
1929	x	y	x	y	x	y	x	y	in 0.″01	
Juli 3	−44.″12	+77.″38	+157.″26	+861.″59	−826.″95	−345.″04	−224.″01	−299.″98	+11	+ 4
4	44.26	77.68	157.12	861.88	827.09	344.75	224.01	299.67	+ 7	+ 8
5	44.41	77.97	156.97	862.17	827.24	344.46	224.01	299.35	+ 2	+11
6	44.56	78.26	156.82	862.46	827.39	344.17	224.02	299.03	− 3	+10
7	44.72	78.55	156.66	862.75	827.55	343.88	224.03	298.72	− 8	+ 8
8	−44.88	+78.83	+156.50	+863.03	−827.71	−343.60	−224.05	−298.40	−11	+ 3
9	45.05	79.11	156.33	863.31	827.87	343.32	224.08	298.09	−12	− 2
10	45.22	79.39	156.15	863.59	828.04	343.04	224.11	297.78	−10	− 6
11	45.40	79.67	155.97	863.87	828.22	342.76	224.14	297.47	− 7	− 9
12	45.58	79.94	155.79	864.14	828.40	342.49	224.18	297.16	− 3	−10
13	−45.77	+80.22	+155.60	+864.42	−828.59	−342.21	−224.23	−296.85	+ 1	− 9
14	45.96	80.49	155.40	864.69	828.78	341.94	224.28	296.53	+ 4	− 6
15	46.16	80.76	155.20	864.96	828.98	341.67	224.34	296.22	+ 6	− 2
16	46.36	81.03	155.00	865.23	829.18	341.40	224.41	295.92	+ 6	+ 2
17	46.57	81.30	154.79	865.50	829.39	341.13	224.48	295.61	+ 5	+ 6
18	−46.78	+81.56	+154.58	+865.76	−829.60	−340.87	−224.56	−295.31	+ 3	+ 9
19	47.00	81.82	154.36	866.02	829.82	340.61	224.64	295.02	0	+10
20	47.22	82.07	154.14	866.27	830.04	340.36	224.72	294.72	− 3	+ 9
21	47.45	82.33	153.91	866.53	830.27	340.10	224.81	294.42	− 6	+ 7
22	47.68	82.58	153.68	866.78	830.50	339.85	224.91	294.13	− 7	+ 3
23	−47.91	+82.83	+153.44	+867.03	−830.73	−339.60	−225.01	−293.84	− 7	− 1
24	48.15	83.08	153.20	867.28	830.97	339.35	225.12	293.54	− 5	− 5
25	48.39	83.32	152.96	867.52	831.21	339.11	225.23	293.25	− 2	− 9
26	48.64	83.56	152.71	867.76	831.46	338.87	225.35	292.97	+ 2	−10
27	48.89	83.80	152.46	868.00	831.71	338.63	225.47	292.68	+ 6	−10
28	−49.15	+84.04	+152.20	+868.24	−831.97	−338.39	−225.60	−292.40	+10	− 8
29	49.41	84.27	151.94	868.47	832.23	338.16	225.74	292.12	+12	− 3
30	49.68	84.49	151.67	868.69	832.49	337.94	225.88	291.85	+12	+ 2
31	49.95	84.72	151.40	868.92	832.76	337.71	226.02	291.58	+10	+ 7
Aug. 1	50.22	84.94	151.13	869.14	833.03	337.49	226.17	291.31	+ 5	+10
2	−50.50	+85.16	+150.85	+869.36	−833.31	−337.27	−226.33	−291.04	0	+11
3	50.78	85.37	150.57	869.57	833.59	337.06	226.49	290.78	− 5	+ 9
4	51.07	85.58	150.28	869.78	833.88	336.85	226.65	290.52	− 9	+ 5
5	51.36	85.79	149.99	869.99	834.17	336.64	226.82	290.27	−11	0
6	51.65	85.99	149.70	870.19	834.46	336.44	227.00	290.02	−10	− 5
7	−51.95	+86.19	+149.40	+870.39	−834.76	−336.24	−227.18	−289.77	− 8	− 9
8	52.25	86.39	149.10	870.59	835.06	336.04	227.36	289.52	− 4	−10
9	−52.55	+86.58	+148.79	+870.78	−835.36	−335.85	−227.55	−289.28	0	−10
Mittl. Ort	−58.″95	+79.″34	+142.″46	+863.″55	−841.″82	−343.″05	−249.″32	−309.″23		

Die Werte von x und y enthalten **nicht** die kurzperiodischen Mondglieder.

*) Die Vorzeichen gelten für die drei nördlichen Sterne, für den südlichen sind sie umzukehren.

Polnahe Sterne 1929

Scheinbare Koordinaten für 12ʰ Sternzeit Greenwich

Tag	BD +89° 1 Gr. 10ᵐ56		BD +89° 3 Gr. 9ᵐ06		BD +89° 37 Gr. 10ᵐ06		CPD −89° 38 Gr. 9ᵐ5		Kurzperiod. Mondgl.*)	
1929	x	y	x	y	x	y	x	y	in 0″01	
Aug. 9	−52″55	+86″58	+148″79	+870″78	−835″36	−335″85	−227″55	−289″28	0	−10
10	52.86	86.77	148.48	870.97	835.67	335.66	227.74	289.04	+ 3	− 7
11	53.17	86.96	148.17	871.16	835.98	335.48	227.94	288.81	+ 5	− 3
12	53.48	87.14	147.86	871.34	836.29	335.29	228.14	288.58	+ 6	+ 1
13	53.80	87.32	147.54	871.52	836.61	335.11	228.35	288.36	+ 5	+ 5
14	−54.12	+87.50	+147.22	+871.70	−836.93	−334.94	−228.56	−288.14	+ 3	+ 8
15	54.45	87.67	146.89	871.87	837.25	334.77	228.77	287.92	0	+10
16	54.78	87.84	146.56	872.04	837.58	334.60	228.99	287.70	− 2	+ 9
17	55.11	88.00	146.23	872.20	837.91	334.44	229.21	287.49	− 5	+ 8
18	55.44	88.16	145.90	872.36	838.24	334.28	229.44	287.29	− 7	+ 5
19	−55.78	+88.31	+145.56	+872.51	−838.57	−334.13	−229.67	−287.09	− 8	+ 1
20	56.12	88.46	145.22	872.66	838.91	333.98	229.91	286.89	− 7	− 4
21	56.46	88.61	144.88	872.81	839.25	333.83	230.14	286.70	− 4	− 8
22	56.80	88.75	144.54	872.95	839.59	333.69	230.38	286.52	0	−10
23	57.15	88.89	144.19	873.09	839.94	333.55	230.63	286.34	+ 4	−10
24	−57.50	+89.02	+143.84	+873.22	−840.29	−333.42	−230.88	−286.16	+ 8	− 9
25	57.85	89.15	143.49	873.35	840.64	333.29	231.13	285.99	+11	− 5
26	58.20	89.28	143.13	873.48	840.99	333.16	231.39	285.82	+12	0
27	58.56	89.40	142.78	873.60	841.35	333.04	231.65	285.66	+10	+ 5
28	58.92	89.52	142.42	873.72	841.71	332.92	231.91	285.51	+ 7	+ 9
29	−59.28	+89.63	+142.06	+873.83	−842.07	−332.81	−232.17	−285.36	+ 2	+11
30	59.64	89.74	141.69	873.94	842.43	332.70	232.44	285.21	− 3	+10
31	60.01	89.84	141.33	874.04	842.80	332.60	232.71	285.07	− 7	+ 7
Sept. 1	60.37	89.94	140.96	874.14	843.16	332.50	232.98	284.94	−10	+ 2
2	60.74	90.03	140.59	874.23	843.53	332.41	233.26	284.81	−10	− 3
3	−61.11	+90.12	+140.22	+874.32	−843.90	−332.32	−233.54	−284.68	− 8	− 7
4	61.48	90.21	139.85	874.41	844.27	332.23	233.82	284.56	− 5	−10
5	61.86	90.29	139.47	874.49	844.65	332.15	234.10	284.44	− 1	−10
6	62.23	90.37	139.10	874.57	845.02	332.07	234.39	284.33	+ 3	− 8
7	62.61	90.44	138.72	874.64	845.40	332.00	234.68	284.23	+ 5	− 5
8	−62.99	+90.51	+138.34	+874.70	−845.78	−331.94	−234.97	−284.13	+ 6	− 1
9	63.37	90.57	137.96	874.76	846.16	331.88	235.26	284.04	+ 6	+ 3
10	63.75	90.63	137.58	874.82	846.54	331.82	235.55	283.96	+ 4	+ 7
11	64.13	90.68	137.20	874.88	846.92	331.76	235.84	283.88	+ 2	+ 9
12	64.51	90.73	136.82	874.93	847.30	331.71	236.14	283.80	− 1	+10
13	−64.90	+90.78	+136.43	+874.97	−847.69	−331.67	−236.44	−283.73	− 4	+ 9
14	65.28	90.82	136.05	875.01	848.07	331.63	236.74	283.67	− 6	+ 6
15	−65.67	+90.86	+135.67	+875.05	−848.46	−331.59	−237.04	−283.61	− 7	+ 2
Mittl. Ort	−58″95	+79″34	+142″46	+863″55	−841″82	−343″05	−249″32	−309″23		

Die Werte von x und y enthalten **nicht** die kurzperiodischen Mondglieder.

*) Die Vorzeichen gelten für die drei nördlichen Sterne, für den südlichen sind sie umzukehren.

Polnahe Sterne 1929

Scheinbare Koordinaten für 12^h Sternzeit Greenwich

Tag	BD +89° 1 Gr. $10^m.56$		BD +89° 3 Gr. $9^m.06$		BD +89° 37 Gr. $10^m.06$		CPD −89° 38 Gr. $9^m.5$		Kurzperiod. Mondgl.*) in $0''.01$	
1929	x	y	x	y	x	y	x	y		
Sept. 15	−65″.67	+90″.86	+135″.67	+875″.05	−848″.46	−331″.59	−237″.04	−283″.61	− 7	+ 2
16	66.06	90.89	135.28	875.08	848.85	331.56	237.34	283.56	− 7	− 2
17	66.44	90.92	134.89	875.11	849.23	331.53	237.64	283.52	− 5	− 6
18	66.83	90.94	134.51	875.13	849.62	331.51	237.95	283.48	− 2	− 9
19	67.22	90.96	134.12	875.15	850.01	331.49	238.25	283.45	+ 2	−10
20	−67.61	+90.97	+133.73	+875.16	−850.40	−331.48	−238.56	−283.42	+ 6	−10
21	68.00	90.97	133.34	875.16	850.79	331.48	238.86	283.40	+10	− 7
22	68.39	90.97	132.95	875.16	851.18	331.48	239.17	283.38	+11	− 2
23	68.78	90.97	132.56	875.16	851.57	331.48	239.48	283.37	+11	+ 3
24	69.17	90.96	132.16	875.15	851.96	331.49	239.79	283.37	+ 8	+ 8
25	−69.56	+90.95	+131.77	+875.14	−852.35	−331.50	−240.10	−283.37	+ 4	+10
26	69.95	90.93	131.38	875.12	852.74	331.52	240.41	283.38	− 2	+11
27	70.35	90.91	130.98	875.10	853.13	331.54	240.72	283.40	− 6	+ 8
28	70.74	90.88	130.59	875.08	853.52	331.57	241.02	283.42	− 9	+ 4
29	71.13	90.85	130.20	875.05	853.91	331.60	241.33	283.45	−10	− 1
30	−71.52	+90.81	+129.81	+875.01	−854.30	−331.64	−241.63	−283.49	− 9	− 6
Okt. 1	71.91	90.77	129.42	874.97	854.69	331.68	241.94	283.53	− 6	− 9
2	72.30	90.72	129.03	874.92	855.08	331.73	242.24	283.57	− 2	−10
3	72.69	90.67	128.64	874.87	855.47	331.78	242.54	283.62	+ 2	− 9
4	73.08	90.61	128.25	874.81	855.86	331.84	242.84	283.68	+ 5	− 6
5	−73.47	+90.55	+127.86	+874.75	−856.25	−331.90	−243.14	−283.75	+ 7	− 2
6	73.85	90.48	127.47	874.68	856.63	331.97	243.44	283.82	+ 7	+ 2
7	74.24	90.41	127.09	874.61	857.02	332.04	243.74	283.90	+ 5	+ 6
8	74.63	90.34	126.70	874.54	857.41	332.11	244.04	283.98	+ 3	+ 8
9	75.01	90.26	126.32	874.46	857.79	332.19	244.33	284.07	0	+10
10	−75.39	+90.17	+125.93	+874.37	−858.17	−332.28	−244.63	−284.16	− 3	+ 9
11	75.77	90.08	125.55	874.28	858.55	332.37	244.92	284.26	− 6	+ 7
12	76.15	89.99	125.17	874.19	858.93	332.46	245.21	284.37	− 7	+ 4
13	76.53	89.89	124.79	874.09	859.31	332.56	245.49	284.48	− 7	0
14	76.91	89.78	124.41	873.98	859.69	332.67	245.78	284.60	− 6	− 5
15	−77.29	+89.67	+124.03	+873.87	−860.07	−332.78	−246.06	−284.73	− 3	− 8
16	77.66	89.55	123.66	873.76	860.44	332.89	246.34	284.86	0	−10
17	78.03	89.43	123.29	873.64	860.81	333.01	246.62	284.99	+ 5	−10
18	78.40	89.31	122.92	873.51	861.18	333.13	246.89	285.13	+ 8	− 8
19	78.77	89.18	122.55	873.38	861.55	333.26	247.16	285.28	+11	− 4
20	−79.14	+89.05	+122.18	+873.25	−861.92	−333.39	−247.43	−285.43	+11	+ 1
21	79.51	88.91	121.81	873.12	862.29	333.53	247.70	285.59	+ 9	+ 6
22	−79.87	+88.77	+121.45	+872.98	−862.65	−333.68	−247.96	−285.75	+ 5	+10
Mittl. Ort	−58″.95	+79″.34	+142″.46	+863″.55	−841″.82	−343″.05	−249″.32	−309″.23		

Die Werte von x und y enthalten **nicht** die kurzperiodischen Mondglieder.

*) Die Vorzeichen gelten für die drei nördlichen Sterne, für den südlichen sind sie umzukehren.

Polnahe Sterne 1929

Scheinbare Koordinaten für 12ʰ Sternzeit Greenwich

Tag	BD +89° 1 Gr. 10ᵐ.56		BD +89° 3 Gr. 9ᵐ.06		BD +89° 37 Gr. 10ᵐ.06		CPD −89° 38 Gr. 9ᵐ.5		Kurzperiod. Mondgl.*)	
1929	x	y	x	y	x	y	x	y	in 0″.01	
Okt. 22	−79″.87	+88″.77	+121″.45	+872″.98	−862″.65	−333″.68	−247″.96	−285″.75	+ 5	+10
23	80.23	88.62	121.09	872.83	863.01	333.83	248.22	285.92	0	+11
24	80.59	88.47	120.73	872.68	863.37	333.98	248.48	286.09	− 5	+10
25	80.95	88.31	120.37	872.52	863.73	334.14	248.73	286.27	− 9	+ 6
26	81.30	88.15	120.02	872.36	864.08	334.30	248.98	286.46	−11	+ 1
27	−81.65	+87.98	+119.67	+872.19	−864.43	−334.47	−249.23	−286.65	−10	− 4
28	82.00	87.81	119.32	872.02	864.78	334.64	249.47	286.85	− 8	− 8
29	82.34	87.64	118.98	871.85	865.12	334.82	249.71	287.05	− 4	−10
30	82.69	87.46	118.63	871.67	865.47	335.00	249.94	287.25	0	−10
31	83.03	87.28	118.29	871.49	865.81	335.18	250.17	287.46	+ 4	− 8
Nov. 1	−83.36	+87.09	+117.96	+871.30	−866.14	−335.37	−250.39	−287.67	+ 6	− 4
2	83.70	86.90	117.62	871.11	866.48	335.56	250.61	287.89	+ 7	0
3	84.03	86.70	117.29	870.91	866.81	335.76	250.83	288.11	+ 6	+ 4
4	84.36	86.50	116.96	870.71	867.14	335.96	251.04	288.34	+ 4	+ 8
5	84.68	86.30	116.64	870.51	867.46	336.17	251.25	288.58	+ 1	+ 9
6	−85.00	+86.09	+116.32	+870.30	−867.78	−336.38	−251.45	−288.82	− 2	+ 9
7	85.32	85.87	116.00	870.08	868.10	336.59	251.65	289.06	− 5	+ 8
8	85.63	85.65	115.69	869.86	868.41	336.81	251.84	289.31	− 6	+ 5
9	85.94	85.43	115.38	869.64	868.72	337.03	252.03	289.56	− 7	+ 1
10	86.24	85.21	115.07	869.42	869.02	337.26	252.21	289.81	− 6	− 3
11	−86.55	+84.98	+114.77	+869.19	−869.33	−337.49	−252.39	−290.07	− 4	− 7
12	86.85	84.74	114.47	868.95	869.63	337.73	252.56	290.33	− 1	−10
13	87.14	84.50	114.17	868.71	869.92	337.97	252.73	290.59	+ 4	−10
14	87.43	84.26	113.88	868.47	870.21	338.21	252.89	290.86	+ 8	− 9
15	87.72	84.01	113.59	868.22	870.50	338.46	253.05	291.14	+11	− 6
16	−88.00	+83.76	+113.31	+867.97	−870.78	−338.71	−253.20	−291.41	+12	− 1
17	88.27	83.51	113.04	867.72	871.05	338.97	253.35	291.69	+10	+ 4
18	88.54	83.25	112.77	867.46	871.32	339.23	253.49	291.98	+ 7	+ 8
19	88.81	82.99	112.50	867.20	871.59	339.49	253.62	292.26	+ 2	+11
20	89.08	82.73	112.23	866.94	871.86	339.75	253.75	292.55	− 3	+10
21	−89.34	+82.46	+111.97	+866.67	−872.12	−340.02	−253.87	−292.84	− 8	+ 8
22	89.59	82.19	111.72	866.40	872.37	340.29	253.99	293.13	−11	+ 3
23	89.84	81.91	111.47	866.13	872.62	340.57	254.10	293.43	−11	− 2
24	90.08	81.63	111.23	865.85	872.86	340.85	254.20	293.73	−10	− 7
25	90.32	81.35	110.99	865.57	873.10	341.13	254.30	294.03	− 6	−10
26	−90.56	+81.06	+110.75	+865.29	−873.34	−341.42	−254.39	−294.34	− 2	−11
27	90.79	80.77	110.52	865.00	873.57	341.71	254.47	294.65	+ 2	− 9
28	−91.01	+80.48	+110.30	+864.71	−873.79	−342.00	−254.55	−294.96	+ 5	− 6
Mittl. Ort	−58″.95	+79″.34	+142″.46	+863″.55	−841″.82	−343″.05	−249″.32	−309″.23		

Die Werte von x und y enthalten **nicht** die kurzperiodischen Mondglieder.

*) Die Vorzeichen gelten für die drei nördlichen Sterne, für den südlichen sind sie umzukehren.

Polnahe Sterne 1929

Scheinbare Koordinaten für 12^h Sternzeit Greenwich

Tag	BD +89° 1 Gr. 10.56m		BD +89° 3 Gr. 9.06m		BD +89° 37 Gr. 10.06m		CPD −89° 38 Gr. 9.5m		Kurzperiod. Mondgl.*)	
1929	x	y	x	y	x	y	x	y	in 0.01″	
Nov. 28	−91.01″	+80.48″	+110.30″	+864.71″	−873.79″	−342.00″	−254.55″	−294.96″	+ 5	− 6
29	91.23	80.19	110.08	864.42	874.01	342.30	254.63	295.27	+ 7	− 1
30	91.44	79.89	109.86	864.12	874.22	342.59	254.70	295.58	+ 6	+ 3
Dez. 1	91.65	79.60	109.65	863.82	874.43	342.89	254.76	295.89	+ 5	+ 7
2	91.85	79.30	109.45	863.52	874.63	343.19	254.81	296.21	+ 2	+ 9
3	−92.05	+78.99	+109.25	+863.22	−874.83	−343.50	−254.86	−296.53	− 1	+10
4	92.24	78.68	109.06	862.91	875.02	343.81	254.90	296.85	− 4	+ 9
5	92.43	78.37	108.87	862.60	875.21	344.12	254.93	297.17	− 6	+ 6
6	92.61	78.06	108.69	862.29	875.39	344.43	254.96	297.49	− 7	+ 3
7	92.78	77.74	108.52	861.97	875.56	344.75	254.98	297.82	− 7	− 1
8	−92.95	+77.42	+108.35	+861.66	−875.73	−345.07	−255.00	−298.14	− 5	− 5
9	93.12	77.10	108.18	861.34	875.90	345.39	255.01	298.47	− 2	− 9
10	93.28	76.78	108.02	861.02	876.06	345.71	255.01	298.79	+ 2	−10
11	93.43	76.46	107.87	860.70	876.21	346.03	255.01	299.12	+ 7	−10
12	93.57	76.14	107.73	860.38	876.35	346.35	255.00	299.45	+10	− 7
13	−93.71	+75.81	+107.59	+860.05	−876.49	−346.68	−254.99	−299.78	+12	− 3
14	93.84	75.48	107.46	859.72	876.62	347.01	254.97	300.12	+12	+ 2
15	93.96	75.15	107.33	859.39	876.75	347.34	254.94	300.45	+ 9	+ 7
16	94.08	74.82	107.21	859.06	876.87	347.67	254.90	300.78	+ 5	+10
17	94.19	74.49	107.10	858.73	876.98	348.01	254.86	301.11	− 1	+11
18	−94.30	+74.15	+106.99	+858.39	−877.09	−348.34	−254.81	−301.44	− 6	+ 9
19	94.40	73.82	106.89	858.06	877.19	348.68	254.75	301.77	−10	+ 5
20	94.50	73.48	106.79	857.72	877.29	349.01	254.69	302.09	−12	0
21	94.59	73.15	106.70	857.39	877.38	349.35	254.62	302.42	−11	− 5
22	94.67	72.81	106.62	857.05	877.46	349.69	254.54	302.75	− 8	− 9
23	−94.75	+72.47	+106.54	+856.71	−877.54	−350.03	−254.46	−303.07	− 4	−11
24	94.82	72.13	106.47	856.37	877.61	350.37	254.37	303.40	0	−10
25	94.88	71.80	106.41	856.03	877.67	350.71	254.28	303.72	+ 4	− 7
26	94.94	71.46	106.36	855.69	877.73	351.04	254.18	304.05	+ 6	− 3
27	94.99	71.12	106.31	855.35	877.78	351.38	254.07	304.37	+ 6	+ 1
28	−95.03	+70.78	+106.27	+855.01	−877.82	−351.73	−253.96	−304.69	+ 5	+ 5
29	95.07	70.44	106.23	854.67	877.86	352.07	253.84	305.02	+ 3	+ 8
30	95.10	70.10	106.20	854.33	877.89	352.41	253.72	305.34	0	+10
31	95.12	69.76	106.17	853.99	877.91	352.76	253.59	305.65	− 4	+ 9
32	−95.14	+69.41	+106.15	+853.65	−877.93	−353.10	−253.45	−305.97	− 6	+ 7
Mittl. Ort	−58.95″	+79.34″	+142.46″	+863.55″	−841.82″	−343.05″	−249.32″	−309.23″		

Die Werte von x und y enthalten **nicht** die kurzperiodischen Mondglieder.

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Formeln

zur Reduktion auf den scheinbaren Ort

$$A = t - (0.34215 + 0.00031\,T)\sin\Omega + 0.00415\sin 2\Omega - 0.02526\sin 2L_\odot$$
$$+ 0.00251\sin M_\odot - 0.00099\sin(2L_\odot + M_\odot) + 0.00042\sin(2L_\odot - M_\odot)$$
$$+ 0.00025\sin(2L_\odot - \Omega)$$

$$A' = - 0.00405\sin 2L_☾ + 0.00135\sin M_☾ - 0.00068\sin(2L_☾ - \Omega)$$
$$- 0.00052\sin(2L_☾ + M_☾) + 0.00030\sin(2L_☾ - 2L_\odot - M_☾)$$
$$+ 0.00023\sin(2L_☾ - M_☾) + 0.00012\sin(2L_☾ - 2L_\odot)$$

$$B = -(9''.210 + 0''.001\,T)\cos\Omega + 0''.090\cos 2\Omega - 0''.551\cos 2L_\odot$$
$$- 0''.022\cos(2L_\odot + M_\odot) + 0''.009\cos(2L_\odot - M_\odot)$$
$$+ 0''.007\cos(2L_\odot - \Omega)$$

$$B' = - 0''.089\cos 2L_☾ - 0''.018\cos(2L_☾ - \Omega) - 0''.011\cos(2L_☾ + M_☾)$$
$$+ 0''.005\cos(2L_☾ - M_☾)$$

$$C = - 20''.47\cos\odot\cos\varepsilon$$
$$D = - 20''.47\sin\odot$$
$$E = -(0^s.0029 - 0^s.0004\,T)\sin\Omega$$

T Zeit seit 1900.0 in Einheiten von 100 tropischen Jahren

t Zeit seit Beginn des annus fictus in Bruchteilen des tropischen Jahres

$t = 0$ für 1929 Januar $0^d.8373$

$a = m + {}^1/_{15}\, n \sin\alpha \operatorname{tg}\delta$	$a' = n\cos\alpha$
$b = {}^1/_{15}\cos\alpha \operatorname{tg}\delta$	$b' = -\sin\alpha$
$c = {}^1/_{15}\cos\alpha\sec\delta$	$c' = \operatorname{tg}\varepsilon\cos\delta - \sin\alpha\sin\delta$
$d = {}^1/_{15}\sin\alpha\sec\delta$	$d' = \cos\alpha\sin\delta$

Für 1929.0 gilt: $m = +3^s.0729$, $n = +20''.044$, $\varepsilon = 23^\circ\,26'\,54''.68$

$$\alpha_{app.} = \alpha_{1929.0} + t\,\mu_\alpha + Aa + Bb + Cc + Dd + E + [A'a + B'b]$$
$$\delta_{app.} = \delta_{1929.0} + t\,\mu_\delta + Aa' + Bb' + Cc' + Dd' \quad + [A'a' + B'b']$$

μ_α, μ_δ jährliche Eigenbewegung in Rektaszension, bez. Deklination

Setzt man

$f = mA + E$	$f' = mA'$	$i = C\operatorname{tg}\varepsilon$
$g\sin G = B$	$g'\sin G' = B'$	$h\sin H = C$
$g\cos G = nA$	$g'\cos G' = nA'$	$h\cos H = D,$

so wird:

$$\alpha_{app.} = \alpha_{1929.0} + t\,\mu_\alpha + f + {}^1/_{15}\,g\sin(G+\alpha)\operatorname{tg}\delta + {}^1/_{15}\,h\sin(H+\alpha)\sec\delta$$
$$+ [f' + {}^1/_{15}\,g'\sin(G'+\alpha)\operatorname{tg}\delta]$$

$$\delta_{app.} = \delta_{1929.0} + t\,\mu_\delta + g\cos(G+\alpha) + h\cos(H+\alpha)\sin\delta + i\cos\delta$$
$$+ [g'\cos(G'+\alpha)]$$

Reduktionsgrößen 1929

für 12^h Sternzeit Greenwich

Welt-Zeit	t	log A	log B	log C	log D	E
1929						
Jan. 1.2	0.0010	9.44254$_n$	0.63988$_n$	0.52776$_n$	1.30399	−0.0023
11.2	0.0284	9.38001$_n$	0.65677$_n$	0.81816$_n$	1.28269	23
21.2	0.0557	9.31143$_n$	0.67770$_n$	0.98123$_n$	1.24571	23
31.1	0.0830	9.23704$_n$	0.70044$_n$	1.08884$_n$	1.19025	22
Febr. 10.1	0.1103	9.15682$_n$	0.72272$_n$	1.16358$_n$	1.11090	22
20.1	0.1376	9.06982$_n$	0.74265$_n$	1.21540$_n$	0.99704	−0.0022
März 2.1	0.1649	8.97317$_n$	0.75884$_n$	1.24937$_n$	0.82373	22
12.0	0.1922	8.86010$_n$	0.77048$_n$	1.26827$_n$	0.50651	22
22.0	0.2195	8.71441$_n$	0.77728$_n$	1.27363$_n$	9.50786$_n$	22
April 1.0	0.2468	8.49164$_n$	0.77924$_n$	1.26595$_n$	0.58263$_n$	21
10.9	0.2741	7.95952$_n$	0.77685$_n$	1.24504$_n$	0.85703$_n$	−0.0021
20.9	0.3014	8.16820	0.77100$_n$	1.20975$_n$	1.01444$_n$	21
30.9	0.3287	8.61363	0.76298$_n$	1.15770$_n$	1.11952$_n$	21
Mai 10.9	0.3560	8.84628	0.75412$_n$	1.08451$_n$	1.19337$_n$	21
20.8	0.3833	9.00860	0.74601$_n$	0.98164$_n$	1.24556$_n$	21
30.8	0.4106	9.13399	0.74013$_n$	0.83046$_n$	1.28092$_n$	−0.0021
Juni 9.8	0.4379	9.23566	0.73775$_n$	0.57611$_n$	1.30220$_n$	21
19.8	0.4652	9.32007	0.73957$_n$	9.82802$_n$	1.31084$_n$	21
29.7	0.4925	9.39099	0.74593$_n$	0.38686	1.30743$_n$	20
Juli 9.7	0.5198	9.45082	0.75648$_n$	0.73878	1.29179$_n$	20
19.7	0.5471	9.50139	0.77012$_n$	0.92288	1.26300$_n$	−0.0020
29.6	0.5744	9.54409	0.78604$_n$	1.04293	1.21906$_n$	20
Aug. 8.6	0.6017	9.58009	0.80257$_n$	1.12730	1.15637$_n$	20
18.6	0.6290	9.61050	0.81836$_n$	1.18774	1.06830$_n$	19
28.6	0.6563	9.63640	0.83232$_n$	1.23006	0.94111$_n$	19
Sept. 7.5	0.6836	9.65883	0.84342$_n$	1.25739	0.74060$_n$	−0.0019
17.5	0.7110	9.67887	0.85114$_n$	1.27138	0.32181$_n$	19
27.5	0.7383	9.69757	0.85497$_n$	1.27267	0.14114	19
Okt. 7.5	0.7656	9.71585	0.85491$_n$	1.26114	0.68547	18
17.4	0.7929	9.73452	0.85138$_n$	1.23586	0.91302	18
27.4	0.8202	9.75414	0.84497$_n$	1.19479	1.05296	−0.0018
Nov. 6.4	0.8475	9.77499	0.83677$_n$	1.13437	1.14879	18
16.3	0.8748	9.79707	0.82808$_n$	1.04793	1.21638	18
26.3	0.9021	9.82008	0.82040$_n$	0.92184	1.26326	17
Dez. 6.3	0.9294	9.84353	0.81531$_n$	0.72198	1.29329	17
16.3	0.9567	9.86682	0.81398$_n$	0.30449	1.30860	−0.0017
26.2	0.9840	9.88931	0.81710$_n$	0.11661$_n$	1.31006	17
36.2	1.0113	9.91046	0.82471$_n$	0.66210$_n$	1.29774	−0.0017

Reduktionsgrößen 1929

Tag	0h Welt-Zeit								
	St.-Zt Grw.	t	f	log g	G	log h	H	log i	i
1929									
Jan. 0	6.6h	−0.0023	−0.868s	0.8529	14h 30.3m	1.3102	23h 26.6m	0.1099_n	−1.288°
1	6.7	+0.0004	0.856	0.8497	14 32.2	1.3100	23 22.8	0.1556_n	1.431
2	6.7	0.0032	0.845	0.8465	14 34.1	1.3098	23 19.1	0.1967_n	1.573
3	6.8	0.0059	0.833	0.8434	14 36.1	1.3096	23 15.3	0.2343_n	1.715
4	6.9	0.0087	0.821	0.8404	14 38.1	1.3093	23 11.5	0.2686_n	1.856
5	6.9	0.0114	0.810	0.8374	14 40.1	1.3090	23 7.8	0.3004_n	1.997
6	7.0	0.0141	−0.798	0.8345	14 42.1	1.3087	23 4.0	0.3298_n	−2.137
7	7.1	0.0169	0.787	0.8316	14 44.2	1.3084	23 0.2	0.3572_n	2.276
8	7.1	0.0196	0.775	0.8288	14 46.3	1.3081	22 56.4	0.3829_n	2.415
9	7.2	0.0224	0.764	0.8261	14 48.5	1.3077	22 52.6	0.4071_n	2.553
10	7.3	0.0251	0.753	0.8234	14 50.7	1.3073	22 48.8	0.4298_n	2.690
11	7.3	0.0278	0.742	0.8208	14 52.9	1.3069	22 45.0	0.4512_n	2.826
12	7.4	0.0306	−0.731	0.8183	14 55.1	1.3065	22 41.2	0.4716_n	−2.962
13	7.5	0.0333	0.720	0.8158	14 57.4	1.3061	22 37.4	0.4909_n	3.097
14	7.5	0.0360	0.709	0.8134	14 59.7	1.3057	22 33.5	0.5093_n	3.231
15	7.6	0.0388	0.698	0.8111	15 2.0	1.3052	22 29.7	0.5267_n	3.363
16	7.7	0.0415	0.687	0.8088	15 4.4	1.3047	22 25.8	0.5433_n	3.494
17	7.7	0.0443	0.676	0.8066	15 6.8	1.3042	22 22.0	0.5592_n	3.624
18	7.8	0.0470	−0.665	0.8045	15 9.2	1.3037	22 18.1	0.5744_n	−3.753
19	7.9	0.0497	0.655	0.8025	15 11.6	1.3032	22 14.2	0.5889_n	3.881
20	7.9	0.0525	0.644	0.8006	15 14.0	1.3026	22 10.4	0.6029_n	4.008
21	8.0	0.0552	0.634	0.7988	15 16.5	1.3021	22 6.5	0.6163_n	4.133
22	8.1	0.0579	0.623	0.7970	15 18.9	1.3015	22 2.6	0.6291_n	4.257
23	8.1	0.0607	0.613	0.7953	15 21.4	1.3009	21 58.7	0.6415_n	4.380
24	8.2	0.0634	−0.603	0.7937	15 23.9	1.3003	21 54.8	0.6533_n	−4.501
25	8.3	0.0662	0.593	0.7922	15 26.4	1.2997	21 50.8	0.6647_n	4.621
26	8.3	0.0689	0.583	0.7908	15 28.8	1.2991	21 46.9	0.6757_n	4.739
27	8.4	0.0716	0.573	0.7895	15 31.3	1.2985	21 43.0	0.6863_n	4.856
28	8.5	0.0744	0.563	0.7883	15 33.8	1.2979	21 39.0	0.6964_n	4.971
29	8.5	0.0771	0.553	0.7871	15 36.3	1.2973	21 35.0	0.7062_n	5.084
30	8.6	0.0798	−0.544	0.7860	15 38.8	1.2966	21 31.1	0.7157_n	−5.196
31	8.6	0.0826	0.534	0.7850	15 41.3	1.2960	21 27.1	0.7248_n	5.306
Febr. 1	8.7	0.0853	0.525	0.7841	15 43.7	1.2953	21 23.1	0.7336_n	5.415
2	8.8	0.0881	0.515	0.7833	15 46.2	1.2947	21 19.1	0.7421_n	5.522
3	8.8	0.0908	0.506	0.7826	15 48.6	1.2940	21 15.0	0.7504_n	5.628
4	8.9	0.0935	0.497	0.7819	15 51.1	1.2934	21 11.0	0.7582_n	5.731
5	9.0	0.0963	−0.488	0.7813	15 53.5	1.2927	21 7.0	0.7658_n	−5.832
6	9.0	0.0990	0.479	0.7807	15 55.9	1.2921	21 2.9	0.7732_n	5.932
7	9.1	0.1018	0.470	0.7802	15 58.3	1.2914	20 58.8	0.7803_n	6.030
8	9.2	0.1045	0.461	0.7798	16 0.7	1.2907	20 54.8	0.7872_n	6.126
9	9.2	0.1072	0.453	0.7794	16 3.1	1.2901	20 50.7	0.7938_n	6.220
10	9.3	0.1100	−0.444	0.7791	16 5.4	1.2894	20 46.6	0.8002_n	−6.312

Tag		0ʰ Welt-Zeit								
		f'	g'	G'	Allgemeine Präzession seit 1929.0	$\Delta\psi$	$\Delta\psi'$	Wahre Schiefe	$\Delta\varepsilon$	$\Delta\varepsilon'$
1929		in 0.001 s	in 0.01 "	h	"	"	in 0.01 "	23° 26' "	"	in 0.01 "
Jan.	0	+17	+12	22.5	−0.12	−14.07	+28	59.07	+4.35	+ 4
	1	+13	11	21.1	+0.02	14.02	+21	59.11	4.36	+ 8
	2	+ 7	11	19.7	0.16	13.97	+11	59.14	4.38	+10
	3	+ 1	9	18.2	0.30	13.91	+ 1	59.16	4.39	+ 9
	4	− 5	8	16.5	0.43	13.86	− 8	59.15	4.41	+ 7
	5	− 8	7	14.4	0.57	13.81	−14	59.13	4.42	+ 4
	6	−10	+ 7	12.0	+0.71	−13.76	−17	59.11	+4.44	0
	7	−10	7	10.0	0.85	13.71	−16	59.09	4.46	− 4
	8	− 8	8	8.4	0.99	13.66	−12	59.07	4.47	− 7
	9	− 4	9	7.1	1.12	13.61	− 6	59.07	4.49	− 9
	10	+ 1	9	5.8	1.26	13.57	+ 1	59.08	4.51	− 9
	11	+ 5	9	4.5	1.40	13.52	+ 9	59.11	4.53	− 8
	12	+ 9	+ 8	3.0	+1.54	−13.48	+14	59.16	+4.55	− 6
	13	+10	7	0.8	1.67	13.43	+17	59.22	4.57	− 1
	14	+ 9	7	22.2	1.81	13.39	+15	59.28	4.59	+ 3
	15	+ 6	8	19.9	1.95	13.35	+10	59.34	4.62	+ 7
	16	0	10	18.1	2.09	13.31	+ 1	59.39	4.64	+10
	17	− 6	11	16.5	2.22	13.27	−11	59.42	4.66	+10
	18	−13	+12	15.1	+2.36	−13.23	−21	59.42	+4.69	+ 9
	19	−17	12	13.6	2.50	13.20	−27	59.41	4.71	+ 5
	20	−17	11	11.9	2.64	13.16	−29	59.38	4.73	0
	21	−15	11	10.1	2.77	13.13	−24	59.35	4.76	− 5
	22	− 8	10	8.1	2.91	13.10	−14	59.34	4.78	− 9
	23	− 1	10	6.1	3.05	13.07	− 1	59.35	4.81	−10
	24	+ 7	+11	4.2	+3.19	−13.04	+12	59.38	+4.83	− 9
	25	+13	11	2.4	3.32	13.01	+22	59.44	4.86	− 6
	26	+17	11	0.7	3.46	12.98	+27	59.51	4.88	− 2
	27	+17	11	22.9	3.60	12.96	+27	59.58	4.91	+ 3
	28	+13	11	21.4	3.74	12.94	+22	59.64	4.93	+ 7
	29	+ 8	11	20.0	3.87	12.91	+14	59.69	4.96	+ 9
	30	+ 2	+10	18.6	+4.01	−12.89	+ 4	59.72	+4.99	+10
	31	− 3	8	17.0	4.15	12.88	− 5	59.73	5.01	+ 8
Febr.	1	− 7	7	15.1	4.29	12.86	−12	59.73	5.04	+ 5
	2	−10	6	12.7	4.43	12.84	−16	59.71	5.07	+ 1
	3	−10	7	10.5	4.56	12.83	−16	59.70	5.09	− 3
	4	− 8	8	8.8	4.70	12.82	−14	59.69	5.12	− 6
	5	− 5	+ 9	7.4	+4.84	−12.81	− 8	59.69	+5.15	− 9
	6	0	9	6.1	4.98	12.80	− 1	59.71	5.17	− 9
	7	+ 4	9	4.9	5.11	12.79	+ 7	59.74	5.20	− 9
	8	+ 8	8	3.4	5.25	12.79	+13	59.79	5.22	− 6
	9	+10	7	1.4	5.39	12.78	+17	59.85	5.25	− 3
	10	+11	+ 7	23.0	+5.53	−12.78	+17	59.92	+5.28	+ 2

Reduktionsgrößen 1929

Tag	0h Welt-Zeit								
	St.-Zt. Grw.	*t*	*f*	log *g*	*G*	log *h*	*H*	log *i*	*i*
1929	h	s			h m		h m		
Febr. 10	9.3	0.1100	—0.444	0.7791	16 5.4	1.2894	20 46.6	0.8002_n	—6.312
11	9.4	0.1127	0.436	0.7789	16 7.7	1.2888	20 42.5	0.8062_n	6.401
12	9.4	0.1154	0.427	0.7787	16 10.0	1.2881	20 38.4	0.8122_n	6.489
13	9.5	0.1182	0.419	0.7786	16 12.3	1.2875	20 34.2	0.8179_n	6.575
14	9.6	0.1209	0.411	0.7785	16 14.6	1.2868	20 30.1	0.8234_n	6.659
15	9.6	0.1237	0.403	0.7784	16 16.8	1.2862	20 25.9	0.8287_n	6.741
16	9.7	0.1264	—0.395	0.7784	16 19.0	1.2856	20 21.8	0.8338_n	—6.820
17	9.8	0.1291	0.387	0.7785	16 21.2	1.2849	20 17.6	0.8387_n	6.897
18	9.8	0.1319	0.379	0.7786	16 23.4	1.2843	20 13.4	0.8434_n	6.973
19	9.9	0.1346	0.372	0.7787	16 25.5	1.2837	20 9.2	0.8479_n	7.046
20	10.0	0.1373	0.364	0.7789	16 27.6	1.2831	20 5.0	0.8522_n	7.116
21	10.0	0.1401	0.356	0.7790	16 29.6	1.2826	20 0.8	0.8564_n	7.185
22	10.1	0.1428	—0.349	0.7792	16 31.7	1.2820	19 56.6	0.8605_n	—7.252
23	10.2	0.1456	0.341	0.7794	16 33.7	1.2814	19 52.4	0.8643_n	7.316
24	10.2	0.1483	0.334	0.7796	16 35.7	1.2809	19 48.1	0.8679_n	7.378
25	10.3	0.1510	0.327	0.7798	16 37.7	1.2804	19 43.9	0.8714_n	7.437
26	10.4	0.1538	0.320	0.7800	16 39.7	1.2799	19 39.6	0.8747_n	7.494
27	10.4	0.1565	0.313	0.7803	16 41.6	1.2794	19 35.4	0.8779_n	7.549
28	10.5	0.1592	—0.306	0.7805	16 43.5	1.2789	19 31.1	0.8809_n	—7.601
März 1	10.6	0.1620	0.299	0.7808	16 45.4	1.2784	19 26.8	0.8837_n	7.651
2	10.6	0.1647	0.292	0.7811	16 47.2	1.2780	19 22.5	0.8864_n	7.699
3	10.7	0.1675	0.285	0.7814	16 49.0	1.2776	19 18.2	0.8890_n	7.745
4	10.8	0.1702	0.278	0.7817	16 50.8	1.2772	19 13.9	0.8914_n	7.788
5	10.8	0.1729	0.271	0.7819	16 52.6	1.2768	19 9.6	0.8937_n	7.828
6	10.9	0.1757	—0.265	0.7822	16 54.4	1.2764	19 5.3	0.8958_n	—7.866
7	10.9	0.1784	0.258	0.7824	16 56.1	1.2761	19 1.0	0.8977_n	7.902
8	11.0	0.1812	0.251	0.7826	16 57.8	1.2758	18 56.7	0.8995_n	7.935
9	11.1	0.1839	0.245	0.7828	16 59.5	1.2755	18 52.4	0.9012_n	7.966
10	11.1	0.1866	0.238	0.7830	17 1.2	1.2752	18 48.1	0.9028_n	7.994
11	11.2	0.1894	0.232	0.7832	17 2.9	1.2749	18 43.7	0.9042_n	8.020
12	11.3	0.1921	—0.225	0.7833	17 4.5	1.2747	18 39.4	0.9055_n	—8.044
13	11.3	0.1948	0.219	0.7835	17 6.2	1.2745	18 35.1	0.9066_n	8.065
14	11.4	0.1976	0.212	0.7836	17 7.8	1.2743	18 30.7	0.9076_n	8.084
15	11.5	0.2003	0.206	0.7837	17 9.5	1.2741	18 26.4	0.9085_n	8.100
16	11.5	0.2031	0.200	0.7838	17 11.1	1.2740	18 22.1	0.9092_n	8.114
17	11.6	0.2058	0.193	0.7838	17 12.7	1.2739	18 17.7	0.9098_n	8.125
18	11.7	0.2085	—0.187	0.7838	17 14.3	1.2738	18 13.4	0.9103_n	—8.134
19	11.7	0.2113	0.181	0.7838	17 15.9	1.2737	18 9.1	0.9106_n	8.140
20	11.8	0.2140	0.174	0.7838	17 17.5	1.2737	18 4.7	0.9108_n	8.144
21	11.9	0.2167	0.168	0.7838	17 19.1	1.2737	18 0.4	0.9109_n	8.146
22	11.9	0.2195	0.162	0.7838	17 20.6	1.2737	17 56.1	0.9109_n	8.145
23	12.0	0.2222	—0.155	0.7837	17 22.2	1.2737	17 51.8	0.9107_n	—8.142

Tag	0h Welt-Zeit								
	f'	g'	G'	Allgemeine Präzession seit 1929.0	Δψ	Δψ'	Wahre Schiefe	Δε	Δε'
1929	in 0.001	in 0.01				in 0.01	23° 26'		in 0.01
Febr. 10	+11	+ 7	23.0	+ 5.53	−12.78	+17	59.92	+5.28	+ 2
11	+ 8	8	20.8	5.66	12.78	+13	59.99	5.30	+ 6
12	+ 3	9	18.8	5.80	12.78	+ 5	60.04	5.33	+ 9
13	− 3	11	17.2	5.94	12.78	− 6	60.08	5.36	+10
14	−10	11	15.7	6.08	12.79	−16	60.09	5.38	+ 9
15	−15	11	14.2	6.21	12.79	−24	60.08	5.41	+ 6
16	−17	+11	12.5	+ 6.35	−12.80	−28	60.06	+5.43	+ 1
17	−15	11	10.7	6.49	12.81	−25	60.03	5.46	− 4
18	−11	11	8.7	6.63	12.82	−17	60.01	5.48	− 8
19	− 3	10	6.8	6.76	12.83	− 6	60.01	5.50	−10
20	+ 4	10	4.9	6.90	12.84	+ 7	60.04	5.53	−10
21	+11	10	3.1	7.04	12.86	+18	60.08	5.55	− 8
22	+15	+11	1.2	+ 7.18	−12.87	+25	60.15	+5.57	− 3
23	+16	11	23.4	7.32	12.89	+27	60.22	5.60	+ 2
24	+14	11	21.8	7.45	12.91	+23	60.28	5.62	+ 6
25	+ 9	11	20.3	7.59	12.93	+15	60.33	5.64	+ 9
26	+ 3	10	18.8	7.73	12.95	+ 5	60.36	5.66	+10
27	− 2	9	17.3	7.87	12.97	− 4	60.37	5.68	+ 9
28	− 7	+ 8	15.6	+ 8.00	−12.99	−11	60.36	+5.70	+ 6
März 1	−10	7	13.4	8.14	13.01	−16	60.34	5.72	+ 2
2	−10	7	11.1	8.28	13.04	−17	60.32	5.74	− 2
3	− 9	8	9.2	8.42	13.06	−15	60.30	5.76	− 5
4	− 6	9	7.7	8.55	13.09	−10	60.29	5.77	− 8
5	− 2	9	6.5	8.69	13.12	− 3	60.29	5.79	− 9
6	+ 3	+ 9	5.3	+ 8.83	−13.15	+ 4	60.31	+5.81	− 9
7	+ 7	9	3.9	8.97	13.17	+11	60.34	5.82	− 7
8	+10	7	2.1	9.10	13.20	+16	60.39	5.84	− 4
9	+11	7	23.8	9.24	13.23	+17	60.45	5.85	0
10	+ 9	7	21.4	9.38	13.27	+15	60.50	5.87	+ 5
11	+ 5	9	19.4	9.52	13.30	+ 8	60.55	5.88	+ 8
12	− 1	+10	17.8	+ 9.65	−13.33	− 2	60.58	+5.89	+10
13	− 7	11	16.3	9.79	13.36	−12	60.59	5.91	+10
14	−13	11	14.8	9.93	13.39	−21	60.58	5.92	+ 7
15	−16	11	13.1	10.07	13.43	−26	60.54	5.93	+ 3
16	−15	10	11.3	10.20	13.46	−25	60.50	5.94	− 2
17	−12	10	9.2	10.34	13.49	−19	60.46	5.95	− 7
18	− 5	+10	7.2	+10.48	−13.53	− 8	60.44	+5.96	−10
19	+ 3	11	5.4	10.62	13.56	+ 4	60.44	5.97	−10
20	+10	11	3.6	10.76	13.60	+16	60.46	5.97	− 9
21	+15	11	1.8	10.89	13.63	+24	60.50	5.98	− 5
22	+17	11	0.0	11.03	13.66	+27	60.56	5.99	0
23	+15	+11	22.3	+11.17	−13.70	+24	60.61	+5.99	+ 5

Reduktionsgrößen 1929

Tag	0^h Welt-Zeit								
	St.-Zt. Grw.	t	f	log g	G	log h	H	log i	i
1929	h	s	s		h m		h m		°
März 23	12.0	0.2222	−0.155	0.7837	17 22.2	1.2737	17 51.8	0.9107_n	−8.142
24	12.1	0.2250	0.149	0.7836	17 23.8	1.2738	17 47.4	0.9104_n	8.136
25	12.1	0.2277	0.142	0.7834	17 25.3	1.2739	17 43.1	0.9099_n	8.127
26	12.2	0.2304	0.136	0.7832	17 26.9	1.2740	17 38.8	0.9093_n	8.116
27	12.3	0.2332	0.130	0.7830	17 28.5	1.2741	17 34.5	0.9086_n	8.103
28	12.3	0.2359	0.123	0.7828	17 30.1	1.2742	17 30.2	0.9078_n	8.087
29	12.4	0.2386	−0.117	0.7825	17 31.6	1.2744	17 25.9	0.9068_n	−8.069
30	12.5	0.2414	0.111	0.7822	17 33.2	1.2746	17 21.6	0.9057_n	8.049
31	12.5	0.2441	0.104	0.7819	17 34.8	1.2748	17 17.3	0.9046_n	8.027
April 1	12.6	0.2469	0.098	0.7816	17 36.4	1.2751	17 13.0	0.9032_n	8.002
2	12.7	0.2496	0.091	0.7812	17 38.0	1.2754	17 8.8	0.9017_n	7.974
3	12.7	0.2523	0.084	0.7808	17 39.7	1.2757	17 4.5	0.9000_n	7.944
4	12.8	0.2551	−0.078	0.7804	17 41.3	1.2760	17 0.3	0.8983_n	−7.912
5	12.9	0.2578	0.071	0.7800	17 42.9	1.2763	16 56.0	0.8964_n	7.878
6	12.9	0.2606	0.064	0.7795	17 44.6	1.2766	16 51.8	0.8944_n	7.841
7	13.0	0.2633	0.058	0.7791	17 46.3	1.2770	16 47.6	0.8922_n	7.801
8	13.1	0.2660	0.051	0.7786	17 47.9	1.2774	16 43.3	0.8898_n	7.759
9	13.1	0.2688	0.044	0.7781	17 49.6	1.2778	16 39.1	0.8874_n	7.716
10	13.2	0.2715	−0.037	0.7776	17 51.3	1.2782	16 34.9	0.8849_n	−7.671
11	13.2	0.2742	0.030	0.7771	17 53.1	1.2787	16 30.7	0.8821_n	7.623
12	13.3	0.2770	0.023	0.7766	17 54.9	1.2791	16 26.6	0.8793_n	7.573
13	13.4	0.2797	0.016	0.7760	17 56.7	1.2796	16 22.4	0.8762_n	7.520
14	13.4	0.2825	0.009	0.7754	17 58.5	1.2801	16 18.3	0.8731_n	7.466
15	13.5	0.2852	−0.002	0.7748	18 0.3	1.2806	16 14.1	0.8698_n	7.410
16	13.6	0.2879	+0.006	0.7743	18 2.1	1.2811	16 10.0	0.8663_n	−7.351
17	13.6	0.2907	0.013	0.7737	18 3.9	1.2817	16 5.9	0.8627_n	7.290
18	13.7	0.2934	0.021	0.7731	18 5.8	1.2822	16 1.8	0.8590_n	7.227
19	13.8	0.2961	0.028	0.7725	18 7.7	1.2828	15 57.7	0.8550_n	7.161
20	13.8	0.2989	0.036	0.7720	18 9.7	1.2833	15 53.6	0.8509_n	7.094
21	13.9	0.3016	0.044	0.7715	18 11.6	1.2839	15 49.6	0.8466_n	7.025
22	14.0	0.3044	+0.051	0.7710	18 13.6	1.2845	15 45.5	0.8422_n	−6.954
23	14.0	0.3071	0.059	0.7705	18 15.6	1.2851	15 41.5	0.8377_n	6.881
24	14.1	0.3098	0.067	0.7700	18 17.6	1.2857	15 37.4	0.8328_n	6.805
25	14.2	0.3126	0.075	0.7695	18 19.7	1.2863	15 33.4	0.8279_n	6.728
26	14.2	0.3153	0.083	0.7691	18 21.8	1.2869	15 29.4	0.8228_n	6.649
27	14.3	0.3180	0.091	0.7687	18 23.9	1.2875	15 25.4	0.8174_n	6.568
28	14.4	0.3208	+0.100	0.7683	18 26.0	1.2881	15 21.5	0.8119_n	−6.485
29	14.4	0.3235	0.108	0.7679	18 28.2	1.2888	15 17.5	0.8062_n	6.401
30	14.5	0.3263	0.116	0.7676	18 30.4	1.2894	15 13.6	0.8004_n	6.315
Mai 1	14.6	0.3290	0.125	0.7674	18 32.6	1.2900	15 9.6	0.7943_n	6.227
2	14.6	0.3317	0.133	0.7671	18 34.8	1.2907	15 5.7	0.7880_n	6.137
3	14.7	0.3345	+0.142	0.7669	18 37.1	1.2913	15 1.8	0.7815_n	−6.046

Tag	0h Welt-Zeit								
	f'	g'	G'	Allgemeine Präzession seit 1929.0	Δψ	Δψ'	Wahre Schiefe	Δε	Δε'
1929	in 0.ˢ001	in 0.″01				in 0.″01	23° 27'		in 0.″01
März 23	+15	+11	22.ʰ3	+11.″17	−13.″70	+24	0.″61	+5.″99	+ 5
24	+11	11	20.7	11.31	13.73	+18	0.65	6.00	+ 8
25	+ 5	10	19.2	11.44	13.77	+ 8	0.67	6.00	+10
26	− 1	9	17.7	11.58	13.80	− 2	0.67	6.01	+ 9
27	− 6	8	16.0	11.72	13.83	−10	0.65	6.01	+ 7
28	−10	7	13.9	11.86	13.87	−16	0.61	6.01	+ 3
29	−11	+ 7	11.8	+11.99	−13.90	−18	0.57	+6.01	0
30	−10	8	9.8	12.13	13.93	−16	0.53	6.01	− 4
31	− 7	9	8.2	12.27	13.96	−12	0.50	6.01	− 7
April 1	− 3	9	6.9	12.41	13.99	− 6	0.48	6.01	− 9
2	+ 1	9	5.7	12.54	14.02	+ 2	0.48	6.01	− 9
3	+ 5	9	4.4	12.68	14.05	+ 9	0.49	6.01	− 8
4	+ 9	+ 8	2.8	+12.82	−14.08	+14	0.52	+6.01	− 5
5	+10	7	0.6	12.96	14.11	+17	0.55	6.01	− 1
6	+ 9	7	22.1	13.09	14.14	+15	0.59	6.00	+ 3
7	+ 6	8	19.8	13.23	14.17	+ 9	0.63	6.00	+ 7
8	0	10	18.1	13.37	14.19	+ 1	0.65	6.00	+10
9	− 6	11	16.7	13.51	14.22	− 9	0.65	5.99	+10
10	−11	+11	15.3	+13.65	−14.24	−19	0.62	+5.99	+ 9
11	−15	11	13.7	13.78	14.27	−25	0.58	5.98	+ 5
12	−16	10	12.1	13.92	14.29	−26	0.52	5.98	0
13	−13	10	9.8	14.06	14.31	−21	0.46	5.97	− 5
14	− 7	10	7.7	14.20	14.33	−11	0.41	5.96	− 9
15	+ 1	11	5.8	14.33	14.35	+ 1	0.39	5.95	−11
16	+ 9	+11	4.0	+14.47	−14.37	+14	0.39	+5.95	− 9
17	+14	11	2.3	14.61	14.38	+23	0.41	5.94	− 6
18	+17	11	0.6	14.75	14.40	+28	0.45	5.93	− 2
19	+16	11	22.9	14.88	14.41	+27	0.49	5.92	+ 3
20	+13	11	21.3	15.02	14.43	+21	0.52	5.91	+ 7
21	+ 7	11	19.7	15.16	14.44	+12	0.53	5.90	+10
22	+ 1	+10	18.2	+15.30	−14.45	+ 1	0.52	+5.89	+10
23	− 5	9	16.6	15.43	14.46	− 8	0.49	5.88	+ 8
24	− 9	8	14.6	15.57	14.47	−15	0.45	5.87	+ 5
25	−11	7	12.4	15.71	14.48	−18	0.40	5.86	+ 1
26	−11	8	10.3	15.85	14.48	−17	0.34	5.85	− 3
27	− 8	8	8.6	15.98	14.49	−14	0.30	5.84	− 7
28	− 5	+ 9	7.3	+16.12	−14.49	− 8	0.26	+5.83	− 9
29	0	10	6.1	16.26	14.49	0	0.24	5.82	−10
30	+ 4	9	4.8	16.40	14.49	+ 7	0.24	5.80	− 9
Mai 1	+ 8	8	3.4	16.53	14.49	+12	0.25	5.79	− 6
2	+10	7	1.4	16.67	14.48	+16	0.28	5.78	− 2
3	+ 9	+ 6	22.7	+16.81	−14.48	+15	0.31	+5.77	+ 2

Reduktionsgrößen 1929

Tag	0h Welt-Zeit								
	St.-Zt. Grw.	t	f	$\log g_1$	G	$\log h$	H	$\log i$	i
1929									
Mai 3	14.7	0.3345	+0.142	0.7669	18 37.1	1.2913	15 1.8	0.7815_n	−6.046
4	14.8	0.3372	0.151	0.7667	18 39.4	1.2919	14 57.9	0.7747_n	5.953
5	14.8	0.3400	0.160	0.7666	18 41.7	1.2926	14 54.1	0.7677_n	5.858
6	14.9	0.3427	0.169	0.7666	18 44.1	1.2932	14 50.2	0.7605_n	5.761
7	15.0	0.3454	0.178	0.7665	18 46.4	1.2938	14 46.3	0.7530_n	5.663
8	15.0	0.3482	0.187	0.7666	18 48.8	1.2944	14 42.5	0.7453_n	5.563
9	15.1	0.3509	+0.196	0.7667	18 51.2	1.2951	14 38.7	0.7374_n	−5.462
10	15.2	0.3536	0.205	0.7669	18 53.6	1.2957	14 34.9	0.7291_n	5.359
11	15.2	0.3564	0.215	0.7672	18 56.0	1.2963	14 31.1	0.7206_n	5.255
12	15.3	0.3591	0.224	0.7675	18 58.5	1.2969	14 27.3	0.7117_n	5.149
13	15.4	0.3619	0.234	0.7679	19 1.0	1.2975	14 23.5	0.7026_n	5.042
14	15.4	0.3646	0.243	0.7683	19 3.4	1.2981	14 19.7	0.6932_n	4.934
15	15.5	0.3673	+0.253	0.7688	19 5.9	1.2987	14 16.0	0.6835_n	−4.825
16	15.5	0.3701	0.263	0.7694	19 8.4	1.2993	14 12.2	0.6734_n	4.714
17	15.6	0.3728	0.273	0.7701	19 10.9	1.2999	14 8.5	0.6629_n	4.601
18	15.7	0.3755	0.283	0.7709	19 13.4	1.3004	14 4.8	0.6520_n	4.487
19	15.7	0.3783	0.293	0.7717	19 15.9	1.3010	14 1.1	0.6407_n	4.372
20	15.8	0.3810	0.303	0.7726	19 18.5	1.3015	13 57.4	0.6291_n	4.257
21	15.9	0.3838	+0.313	0.7736	19 21.0	1.3021	13 53.7	0.6170_n	−4.140
22	15.9	0.3865	0.323	0.7747	19 23.5	1.3026	13 50.0	0.6043_n	4.021
23	16.0	0.3892	0.333	0.7759	19 26.1	1.3031	13 46.4	0.5912_n	3.901
24	16.1	0.3920	0.344	0.7772	19 28.6	1.3036	13 42.7	0.5776_n	3.781
25	16.1	0.3947	0.354	0.7785	19 31.1	1.3041	13 39.1	0.5635_n	3.660
26	16.2	0.3974	0.365	0.7799	19 33.7	1.3045	13 35.4	0.5486_n	3.537
27	16.3	0.4002	+0.375	0.7814	19 36.2	1.3050	13 31.8	0.5333_n	−3.414
28	16.3	0.4029	0.386	0.7830	19 38.7	1.3054	13 28.2	0.5172_n	3.290
29	16.4	0.4057	0.397	0.7847	19 41.2	1.3059	13 24.6	0.5002_n	3.164
30	16.5	0.4084	0.407	0.7865	19 43.6	1.3063	13 21.0	0.4826_n	3.038
31	16.5	0.4111	0.418	0.7883	19 46.1	1.3067	13 17.4	0.4640_n	2.911
Juni 1	16.6	0.4139	0.429	0.7902	19 48.5	1.3071	13 13.8	0.4445_n	2.783
2	16.7	0.4166	+0.440	0.7922	19 50.9	1.3074	13 10.2	0.4241_n	−2.655
3	16.7	0.4194	0.451	0.7943	19 53.3	1.3078	13 6.6	0.4024_n	2.526
4	16.8	0.4221	0.462	0.7965	19 55.7	1.3081	13 3.1	0.3797_n	2.397
5	16.9	0.4248	0.473	0.7987	19 58.1	1.3084	12 59.5	0.3555_n	2.267
6	16.9	0.4276	0.484	0.8010	20 0.4	1.3087	12 56.0	0.3294_n	2.135
7	17.0	0.4303	0.495	0.8034	20 2.7	1.3090	12 52.4	0.3017_n	2.003
8	17.1	0.4330	+0.506	0.8059	20 5.0	1.3093	12 48.9	0.2721_n	−1.871
9	17.1	0.4358	0.518	0.8084	20 7.2	1.3096	12 45.3	0.2403_n	1.739
10	17.2	0.4385	0.529	0.8110	20 9.5	1.3098	12 41.8	0.2057_n	1.606
11	17.3	0.4413	0.540	0.8136	20 11.7	1.3100	12 38.3	0.1682_n	1.473
12	17.3	0.4440	0.552	0.8163	20 13.8	1.3102	12 34.8	0.1268_n	1.339
13	17.4	0.4467	+0.563	0.8191	20 15.9	1.3104	12 31.2	0.0810_n	−1.205

Tag	f'	g'	G'	Allgemeine Präzession seit 1929.0	Δψ	Δψ'	Wahre Schiefe	Δε	Δε'
	0ʰ Welt-Zeit								
1929	in 0ˢ.001	in 0".01				in 0".01	23° 26'		in 0".01
Mai 3	+ 9	+ 6	22ʰ.7	+16".81	−14".48	+15	60".31	+5".77	+ 2
4	+ 6	8	20.2	16.95	14.47	+11	60.34	5.76	+ 6
5	+ 2	10	18.4	17.09	14.47	+ 2	60.36	5.75	+ 9
6	− 5	11	16.9	17.22	14.46	− 8	60.35	5.73	+11
7	−11	12	15.6	17.36	14.45	−18	60.33	5.72	+ 9
8	−15	12	14.1	17.50	14.44	−25	60.28	5.71	+ 6
9	−17	+11	12.5	+17.64	−14.42	−27	60.22	+5.70	+ 1
10	−15	10	10.5	17.77	14.41	−24	60.16	5.69	− 4
11	− 9	10	8.5	17.91	14.40	−15	60.10	5.68	− 8
12	− 2	11	6.4	18.05	14.38	− 3	60.07	5.66	−10
13	+ 6	11	4.5	18.19	14.36	+10	60.05	5.65	−10
14	+13	12	2.8	18.32	14.34	+22	60.07	5.64	− 8
15	+17	+12	1.1	+18.46	−14.32	+28	60.10	+5.63	− 3
16	+18	12	23.5	18.60	14.30	+30	60.14	5.62	+ 2
17	+15	12	21.9	18.74	14.27	+25	60.17	5.61	+ 6
18	+10	11	20.4	18.87	14.25	+16	60.19	5.60	+ 9
19	+ 4	10	18.9	19.01	14.22	+ 6	60.19	5.59	+10
20	− 3	9	17.3	19.15	14.19	− 4	60.16	5.58	+ 9
21	− 7	+ 8	15.4	+19.29	−14.17	−12	60.12	+5.57	+ 6
22	−10	7	13.2	19.42	14.14	−16	60.08	5.56	+ 2
23	−11	7	10.9	19.56	14.11	−17	60.02	5.55	− 2
24	− 9	8	9.0	19.70	14.07	−14	59.98	5.54	− 6
25	− 5	9	7.5	19.84	14.04	− 9	59.94	5.54	− 8
26	− 1	10	6.3	19.98	14.01	− 2	59.92	5.53	− 9
27	+ 3	+ 9	5.2	+20.11	−13.97	+ 5	59.92	+5.52	− 9
28	+ 7	8	3.8	20.25	13.93	+11	59.93	5.51	− 7
29	+ 9	7	2.1	20.39	13.89	+15	59.96	5.51	− 4
30	+10	6	23.5	20.53	13.86	+16	59.99	5.50	+ 1
31	+ 7	7	20.9	20.66	13.82	+12	60.03	5.50	+ 5
Juni 1	+ 3	9	18.8	20.80	13.78	+ 5	60.06	5.49	+ 9
2	− 3	+10	17.2	+20.94	−13.74	− 5	60.07	+5.49	+10
3	−10	12	15.8	21.08	13.69	−16	60.06	5.48	+10
4	−15	12	14.4	21.21	13.65	−25	60.03	5.48	+ 7
5	−18	12	12.9	21.35	13.61	−29	59.98	5.47	+ 3
6	−17	11	11.3	21.49	13.56	−28	59.92	5.47	− 2
7	−13	11	9.3	21.63	13.52	−21	59.87	5.47	− 7
8	− 5	+11	7.3	+21.76	−13.47	− 9	59.84	+5.47	−10
9	+ 3	11	5.3	21.90	13.43	+ 5	59.83	5.47	−11
10	+11	11	3.4	22.04	13.38	+18	59.85	5.47	− 9
11	+16	12	1.6	22.18	13.33	+27	59.89	5.47	− 5
12	+19	12	0.0	22.31	13.29	+30	59.93	5.47	0
13	+17	+12	22.4	+22.45	−13.24	+28	59.98	+5.47	+ 5

Reduktionsgrößen 1929

Tag		0h Welt-Zeit								
		St.-Zt Grw.	t	f	log g	G	log h	H	log i	i
1929		h	s	s		h m		h m		"
Juni	13	17.4	0.4467	+0.563	0.8191	20 15.9	1.3104	12 31.2	0.0810_n	−1.205
	14	17.5	0.4495	0.574	0.8219	20 18.0	1.3105	12 27.7	0.0294_n	1.070
	15	17.5	0.4522	0.586	0.8248	20 20.1	1.3107	12 24.2	9.9708_n	0.935
	16	17.6	0.4549	0.597	0.8277	20 22.1	1.3108	12 20.7	9.9031_n	0.800
	17	17.7	0.4577	0.608	0.8307	20 24.1	1.3109	12 17.2	9.8228_n	0.665
	18	17.7	0.4604	0.620	0.8337	20 26.0	1.3110	12 13.7	9.7243_n	0.530
	19	17.8	0.4632	+0.631	0.8368	20 27.9	1.3110	12 10.2	9.5966_n	−0.395
	20	17.8	0.4659	0.643	0.8399	20 29.8	1.3111	12 6.7	9.4133_n	0.259
	21	17.9	0.4686	0.654	0.8430	20 31.7	1.3111	12 3.2	9.0899_n	−0.123
	22	18.0	0.4714	0.666	0.8462	20 33.5	1.3111	11 59.7	8.0792	+0.012
	23	18.0	0.4741	0.677	0.8494	20 35.3	1.3111	11 56.2	9.1703	0.148
	24	18.1	0.4768	0.688	0.8526	20 37.0	1.3111	11 52.7	9.4533	0.284
	25	18.2	0.4796	+0.700	0.8559	20 38.7	1.3110	11 49.2	9.6222	+0.419
	26	18.2	0.4823	0.711	0.8592	20 40.3	1.3110	11 45.7	9.7435	0.554
	27	18.3	0.4851	0.723	0.8625	20 41.9	1.3109	11 42.2	9.8382	0.689
	28	18.4	0.4878	0.734	0.8658	20 43.5	1.3108	11 38.7	9.9159	0.824
	29	18.4	0.4905	0.745	0.8691	20 45.0	1.3106	11 35.2	9.9818	0.959
	30	18.5	0.4933	0.757	0.8724	20 46.5	1.3105	11 31.7	0.0390	1.094
Juli	1	18.6	0.4960	+0.768	0.8758	20 48.0	1.3103	11 28.1	0.0892	+1.228
	2	18.6	0.4987	0.780	0.8792	20 49.4	1.3102	11 24.6	0.1342	1.362
	3	18.7	0.5015	0.791	0.8825	20 50.8	1.3100	11 21.1	0.1746	1.495
	4	18.8	0.5042	0.802	0.8859	20 52.1	1.3097	11 17.6	0.2117	1.628
	5	18.8	0.5070	0.813	0.8893	20 53.4	1.3095	11 14.1	0.2458	1.761
	6	18.9	0.5097	0.824	0.8927	20 54.7	1.3092	11 10.5	0.2772	1.893
	7	19.0	0.5124	+0.836	0.8961	20 55.9	1.3090	11 7.0	0.3062	+2.024
	8	19.0	0.5152	0.847	0.8995	20 57.1	1.3087	11 3.5	0.3334	2.155
	9	19.1	0.5179	0.858	0.9028	20 58.3	1.3084	10 59.9	0.3591	2.286
	10	19.2	0.5207	0.869	0.9062	20 59.4	1.3081	10 56.4	0.3831	2.416
	11	19.2	0.5234	0.880	0.9095	21 0.5	1.3077	10 52.8	0.4057	2.545
	12	19.3	0.5261	0.891	0.9128	21 1.6	1.3074	10 49.3	0.4270	2.673
	13	19.4	0.5289	+0.902	0.9161	21 2.6	1.3070	10 45.7	0.4473	+2.801
	14	19.4	0.5316	0.912	0.9195	21 3.6	1.3066	10 42.2	0.4666	2.928
	15	19.5	0.5343	0.923	0.9228	21 4.6	1.3062	10 38.6	0.4849	3.054
	16	19.6	0.5371	0.934	0.9261	21 5.5	1.3058	10 35.0	0.5023	3.179
	17	19.6	0.5398	0.944	0.9293	21 6.4	1.3054	10 31.4	0.5189	3.303
	18	19.7	0.5426	0.955	0.9325	21 7.3	1.3050	10 27.8	0.5349	3.427
	19	19.8	0.5453	+0.965	0.9357	21 8.2	1.3045	10 24.2	0.5502	+3.550
	20	19.8	0.5480	0.976	0.9389	21 9.0	1.3040	10 20.6	0.5649	3.672
	21	19.9	0.5508	0.986	0.9421	21 9.8	1.3035	10 17.0	0.5789	3.792
	22	20.0	0.5535	0.997	0.9453	21 10.6	1.3030	10 13.3	0.5923	3.911
	23	20.0	0.5562	1.007	0.9485	21 11.3	1.3025	10 9.7	0.6053	4.030
	24	20.1	0.5590	+1.017	0.9516	21 12.1	1.3020	10 6.0	0.6178	+4.148

Tag	0h Welt-Zeit								
	f'	g'	G'	Allgemeine Präzession seit 1929.0	$\Delta\psi$	$\Delta\psi'$	Wahre Schiefe	$\Delta\varepsilon$	$\Delta\varepsilon'$
1929	in 0.001	in 0.01				in 0.01	23° 26′		in 0.01
Juni 13	+17	+12	22.4	+22.45	−13.24	+28	59.98	+5.47	+ 5
14	+13	12	20.9	22.59	13.19	+21	60.02	5.47	+ 8
15	+ 6	11	19.5	22.73	13.14	+11	60.04	5.47	+10
16	0	9	18.0	22.86	13.09	0	60.03	5.47	+ 9
17	− 5	8	16.2	23.00	13.04	− 9	60.01	5.48	+ 7
18	− 9	7	14.0	23.14	13.00	−14	59.97	5.48	+ 3
19	−10	+ 7	11.5	+23.28	−12.95	−16	59.94	+5.49	− 1
20	− 9	7	9.4	23.42	12.90	−15	59.90	5.49	− 5
21	− 6	9	7.8	23.55	12.85	−10	59.87	5.50	− 8
22	− 2	9	6.5	23.69	12.80	− 3	59.86	5.50	− 9
23	+ 3	9	5.3	23.83	12.75	+ 4	59.87	5.51	− 9
24	+ 7	9	4.1	23.97	12.70	+11	59.89	5.52	− 8
25	+ 9	+ 8	2.5	+24.10	−12.65	+15	59.93	+5.52	− 5
26	+10	7	0.3	24.24	12.60	+17	59.97	5.53	− 1
27	+ 9	7	21.8	24.38	12.55	+14	60.02	5.54	+ 4
28	+ 5	8	19.5	24.52	12.50	+ 8	60.07	5.55	+ 7
29	− 1	10	17.7	24.65	12.45	− 2	60.11	5.56	+10
30	− 8	11	16.2	24.79	12.40	−13	60.12	5.57	+10
Juli 1	−14	+12	14.8	+24.93	−12.36	−23	60.11	+5.58	+ 8
2	−18	13	13.4	25.07	12.31	−29	60.09	5.60	+ 5
3	−19	12	11.8	25.20	12.26	−31	60.04	5.61	0
4	−16	11	10.2	25.34	12.21	−26	60.01	5.62	− 5
5	− 9	11	8.2	25.48	12.17	−15	59.98	5.63	− 9
6	− 1	11	6.2	25.62	12.12	− 2	59.98	5.65	−11
7	+ 7	+11	4.3	+25.75	−12.08	+12	60.00	+5.66	−10
8	+14	11	2.4	25.89	12.03	+23	60.05	5.68	− 6
9	+18	11	0.6	26.03	11.99	+29	60.11	5.70	− 2
10	+17	12	22.9	26.17	11.95	+28	60.18	5.71	+ 3
11	+14	12	21.4	26.30	11.91	+23	60.23	5.73	+ 7
12	+ 9	11	20.0	26.44	11.87	+14	60.27	5.74	+10
13	+ 2	+10	18.5	+26.58	−11.82	+ 4	60.29	+5.76	+10
14	− 3	8	17.0	26.72	11.78	− 6	60.29	5.78	+ 8
15	− 7	7	14.9	26.86	11.75	−12	60.27	5.80	+ 5
16	− 9	6	12.3	26.99	11.71	−15	60.24	5.82	0
17	− 9	7	9.8	27.13	11.67	−14	60.22	5.84	− 4
18	− 6	8	8.0	27.27	11.64	−10	60.21	5.86	− 7
19	− 3	+ 9	6.7	+27.41	−11.60	− 4	60.21	+5.88	− 9
20	+ 2	10	5.5	27.54	11.57	+ 3	60.22	5.90	−10
21	+ 6	9	4.3	27.68	11.54	+10	60.25	5.92	− 8
22	+ 9	8	2.9	27.82	11.50	+15	60.30	5.94	− 6
23	+11	7	1.0	27.96	11.47	+18	60.35	5.96	− 2
24	+10	+ 7	22.7	+28.09	−11.45	+17	60.42	+5.98	+ 2

Reductionsgrößen 1929

Tag	0ʰ Welt-Zeit								
	St.-Zt. Grw.	t	f	$\log g$	G	$\log h$	H	$\log i$	i
1929	h	s	s		h m		h m		"
Juli 24	20.1	0.5590	+1.017	0.9516	21 12.1	1.3020	10 6.0	0.6178	+4.148
25	20.1	0.5617	1.027	0.9547	21 12.8	1.3015	10 2.4	0.6298	4.264
26	20.2	0.5645	1.037	0.9578	21 13.5	1.3009	9 58.7	0.6414	4.379
27	20.3	0.5672	1.047	0.9608	21 14.1	1.3004	9 55.0	0.6524	4.492
28	20.3	0.5699	1.057	0.9637	21 14.8	1.2998	9 51.3	0.6632	4.605
29	20.4	0.5727	1.067	0.9667	21 15.4	1.2993	9 47.6	0.6737	4.717
30	20.5	0.5754	+1.077	0.9696	21 16.0	1.2987	9 43.9	0.6837	+4.827
31	20.5	0.5781	1.086	0.9726	21 16.6	1.2981	9 40.2	0.6934	4.936
Aug. 1	20.6	0.5809	1.096	0.9755	21 17.1	1.2975	9 36.5	0.7027	5.043
2	20.7	0.5836	1.105	0.9784	21 17.7	1.2969	9 32.7	0.7117	5.149
3	20.7	0.5864	1.115	0.9812	21 18.2	1.2963	9 29.0	0.7205	5.254
4	20.8	0.5891	1.124	0.9840	21 18.7	1.2957	9 25.2	0.7289	5.357
5	20.9	0.5918	+1.134	0.9867	21 19.2	1.2951	9 21.4	0.7371	+5.459
6	20.9	0.5946	1.143	0.9894	21 19.7	1.2945	9 17.6	0.7450	5.559
7	21.0	0.5973	1.152	0.9921	21 20.2	1.2939	9 13.8	0.7527	5.658
8	21.1	0.6001	1.161	0.9948	21 20.6	1.2932	9 10.0	0.7600	5.755
9	21.1	0.6028	1.170	0.9974	21 21.1	1.2926	9 6.2	0.7672	5.851
10	21.2	0.6055	1.179	1.0000	21 21.5	1.2920	9 2.4	0.7742	5.945
11	21.3	0.6083	+1.187	1.0026	21 21.9	1.2913	8 58.5	0.7809	+6.038
12	21.3	0.6110	1.196	1.0051	21 22.3	1.2907	8 54.7	0.7874	6.129
13	21.4	0.6137	1.205	1.0076	21 22.7	1.2901	8 50.8	0.7937	6.218
14	21.5	0.6165	1.213	1.0101	21 23.0	1.2895	8 46.9	0.7997	6.305
15	21.5	0.6192	1.222	1.0126	21 23.4	1.2888	8 43.0	0.8055	6.390
16	21.6	0.6220	1.230	1.0150	21 23.7	1.2882	8 39.1	0.8112	6.474
17	21.7	0.6247	+1.238	1.0174	21 24.1	1.2876	8 35.1	0.8166	+6.556
18	21.7	0.6274	1.246	1.0197	21 24.4	1.2870	8 31.2	0.8220	6.637
19	21.8	0.6302	1.254	1.0220	21 24.8	1.2864	8 27.2	0.8270	6.715
20	21.9	0.6329	1.262	1.0242	21 25.1	1.2858	8 23.3	0.8319	6.791
21	21.9	0.6356	1.270	1.0265	21 25.4	1.2852	8 19.3	0.8367	6.866
22	22.0	0.6384	1.278	1.0287	21 25.8	1.2846	8 15.3	0.8413	6.939
23	22.1	0.6411	+1.286	1.0308	21 26.1	1.2840	8 11.3	0.8457	+7.009
24	22.1	0.6439	1.294	1.0329	21 26.4	1.2835	8 7.3	0.8499	7.078
25	22.2	0.6466	1.301	1.0350	21 26.7	1.2829	8 3.3	0.8540	7.145
26	22.3	0.6493	1.309	1.0371	21 27.0	1.2824	7 59.2	0.8579	7.210
27	22.3	0.6521	1.316	1.0392	21 27.3	1.2818	7 55.2	0.8617	7.273
28	22.4	0.6548	1.324	1.0412	21 27.6	1.2813	7 51.1	0.8653	7.334
29	22.4	0.6575	+1.331	1.0432	21 27.9	1.2808	7 47.1	0.8688	+7.392
30	22.5	0.6603	1.339	1.0451	21 28.2	1.2803	7 43.0	0.8721	7.449
31	22.6	0.6630	1.346	1.0470	21 28.4	1.2798	7 38.9	0.8753	7.504
Sept. 1	22.6	0.6658	1.353	1.0489	21 28.7	1.2793	7 34.8	0.8783	7.557
2	22.7	0.6685	1.360	1.0508	21 29.0	1.2788	7 30.7	0.8812	7.607
3	22.8	0.6712	+1.367	1.0526	21 29.3	1.2784	7 26.5	0.8839	+7.654

Tag	f'	g'	G'	Allgemeine Präzession seit 1929.0	$\Delta\psi$	$\Delta\psi'$	Wahre Schiefe	$\Delta\varepsilon$	$\Delta\varepsilon'$
	0h Welt-Zeit								
1929	in 0.s001	in 0.″01				in 0.″01	23° 27′		in 0.″01
Juli 24	+10	+ 7	22.h7	+28.″09	−11.″45	+17	0.″42	+5.″98	+ 2
25	+ 7	8	20.3	28.23	11.42	+11	0.48	6.00	+ 6
26	+ 2	9	18.4	28.37	11.39	+ 2	0.53	6.03	+ 9
27	− 5	11	16.8	28.51	11.37	− 8	0.57	6.05	+11
28	−12	12	15.4	28.64	11.34	−19	0.57	6.07	+ 9
29	−17	12	13.9	28.78	11.32	−27	0.56	6.10	+ 6
30	−19	+12	12.4	+28.92	−11.30	−31	0.54	+6.12	+ 1
31	−17	12	10.7	29.06	11.28	−29	0.51	6.14	− 4
Aug. 1	−12	11	9.0	29.19	11.26	−20	0.49	6.16	− 8
2	− 5	11	7.1	29.33	11.24	− 8	0.48	6.19	−11
3	+ 3	10	5.2	29.47	11.22	+ 5	0.51	6.21	−10
4	+11	10	3.2	29.61	11.21	+17	0.56	6.24	− 8
5	+15	+11	1.2	+29.75	−11.19	+25	0.62	+6.26	− 3
6	+17	11	23.4	29.88	11.18	+27	0.70	6.28	+ 2
7	+14	11	21.7	30.02	11.17	+24	0.77	6.31	+ 6
8	+10	11	20.2	30.16	11.16	+16	0.82	6.33	+ 9
9	+ 4	10	18.8	30.30	11.15	+ 6	0.85	6.36	+10
10	− 2	9	17.4	30.43	11.14	− 3	0.86	6.38	+ 9
11	− 7	+ 7	15.6	+30.57	−11.14	−11	0.85	+6.40	+ 6
12	− 9	6	13.0	30.71	11.13	−15	0.83	6.43	+ 2
13	− 9	6	10.5	30.85	11.13	−15	0.81	6.45	− 2
14	− 7	8	8.4	30.98	11.13	−11	0.80	6.47	− 6
15	− 3	9	6.9	31.12	11.13	− 5	0.80	6.50	− 9
16	+ 1	10	5.7	31.26	11.13	+ 2	0.81	6.52	−10
17	+ 5	+ 9	4.5	+31.40	−11.13	+ 9	0.84	+6.55	− 9
18	+ 9	9	3.2	31.53	11.14	+15	0.88	6.57	− 7
19	+11	8	1.5	31.67	11.14	+18	0.94	6.59	− 3
20	+11	7	23.4	31.81	11.15	+18	1.00	6.61	+ 1
21	+ 9	8	21.2	31.95	11.16	+15	1.07	6.64	+ 5
22	+ 4	9	19.2	32.08	11.17	+ 7	1.12	6.66	+ 9
23	− 2	+10	17.5	+32.22	−11.18	− 3	1.16	+6.68	+10
24	− 9	11	16.0	32.36	11.19	−14	1.17	6.70	+10
25	−15	12	14.5	32.50	11.20	−24	1.17	6.72	+ 7
26	−18	12	12.9	32.63	11.21	−29	1.14	6.74	+ 3
27	−18	12	11.3	32.77	11.23	−29	1.11	6.76	− 2
28	−14	12	9.5	32.91	11.24	−23	1.08	6.78	− 7
29	− 7	+11	7.7	+33.05	−11.26	−12	1.07	+6.80	−10
30	+ 1	11	5.9	33.19	11.28	+ 1	1.08	6.82	−11
31	+ 8	10	3.9	33.32	11.30	+13	1.12	6.84	− 9
Sept. 1	+13	10	1.9	33.46	11.32	+22	1.18	6.86	− 5
2	+16	10	0.0	33.60	11.34	+26	1.24	6.88	0
3	+15	+11	22.1	+33.74	−11.36	+24	1.31	+6.90	+ 5

Reduktionsgrößen 1929

Tag	0h Welt-Zeit								
	St.-Zt. Grw.	t	f	log g	G	log h	H	log i	i
1929	h	s	s		h m		h m		"
Sept. 3	22.8	0.6712	+1.367	1.0526	21 29.3	1.2784	7 26.5	0.8839	+7.654
4	22.8	0.6740	1.374	1.0544	21 29.6	1.2780	7 22.4	0.8865	7.700
5	22.9	0.6767	1.381	1.0562	21 29.9	1.2776	7 18.2	0.8890	7.744
6	23.0	0.6795	1.388	1.0579	21 30.2	1.2772	7 14.1	0.8913	7.786
7	23.0	0.6822	1.395	1.0596	21 30.4	1.2768	7 9.9	0.8935	7.826
8	23.1	0.6849	1.402	1.0613	21 30.7	1.2765	7 5.8	0.8956	7.863
9	23.2	0.6877	+1.409	1.0629	21 31.0	1.2761	7 1.6	0.8975	+7.897
10	23.2	0.6904	1.415	1.0646	21 31.3	1.2758	6 57.4	0.8993	7.930
11	23.3	0.6931	1.422	1.0662	21 31.6	1.2755	6 53.2	0.9010	7.961
12	23.4	0.6959	1.429	1.0678	21 32.0	1.2752	6 49.0	0.9025	7.989
13	23.4	0.6986	1.435	1.0694	21 32.3	1.2750	6 44.7	0.9039	8.015
14	23.5	0.7014	1.442	1.0709	21 32.6	1.2747	6 40.5	0.9051	8.038
15	23.6	0.7041	+1.449	1.0724	21 32.9	1.2745	6 36.3	0.9063	+8.059
16	23.6	0.7068	1.455	1.0739	21 33.3	1.2743	6 32.0	0.9073	8.078
17	23.7	0.7096	1.462	1.0753	21 33.6	1.2742	6 27.8	0.9082	8.095
18	23.8	0.7123	1.468	1.0767	21 33.9	1.2740	6 23.5	0.9090	8.109
19	23.8	0.7150	1.475	1.0781	21 34.3	1.2739	6 19.3	0.9096	8.121
20	23.9	0.7178	1.481	1.0795	21 34.6	1.2738	6 15.0	0.9101	8.130
21	0.0	0.7205	+1.488	1.0809	21 35.0	1.2738	6 10.8	0.9105	+8.137
22	0.0	0.7233	1.494	1.0823	21 35.3	1.2737	6 6.5	0.9107	8.142
23	0.1	0.7260	1.501	1.0837	21 35.7	1.2737	6 2.2	0.9109	8.145
24	0.2	0.7287	1.507	1.0851	21 36.1	1.2737	5 58.0	0.9109	8.145
25	0.2	0.7315	1.514	1.0864	21 36.5	1.2737	5 53.7	0.9108	8.143
26	0.3	0.7342	1.520	1.0877	21 36.9	1.2737	5 49.4	0.9105	8.138
27	0.4	0.7369	+1.526	1.0890	21 37.3	1.2738	5 45.1	0.9101	+8.131
28	0.4	0.7397	1.533	1.0903	21 37.7	1.2739	5 40.9	0.9096	8.121
29	0.5	0.7424	1.539	1.0916	21 38.1	1.2740	5 36.6	0.9090	8.109
30	0.6	0.7452	1.546	1.0928	21 38.5	1.2742	5 32.3	0.9082	8.095
Okt. 1	0.6	0.7479	1.552	1.0941	21 39.0	1.2743	5 28.0	0.9074	8.079
2	0.7	0.7506	1.559	1.0953	21 39.4	1.2745	5 23.8	0.9063	8.060
3	0.7	0.7534	+1.566	1.0965	21 39.9	1.2747	5 19.5	0.9052	+8.039
4	0.8	0.7561	1.572	1.0977	21 40.3	1.2750	5 15.2	0.9039	8.015
5	0.9	0.7589	1.579	1.0989	21 40.8	1.2752	5 11.0	0.9025	7.989
6	0.9	0.7616	1.586	1.1001	21 41.3	1.2755	5 6.7	0.9009	7.960
7	1.0	0.7643	1.592	1.1013	21 41.8	1.2758	5 2.4	0.8992	7.929
8	1.1	0.7671	1.599	1.1025	21 42.3	1.2761	4 58.2	0.8974	7.896
9	1.1	0.7698	+1.606	1.1037	21 42.8	1.2765	4 53.9	0.8954	+7.860
10	1.2	0.7725	1.613	1.1049	21 43.3	1.2768	4 49.7	0.8933	7.822
11	1.3	0.7753	1.620	1.1061	21 43.8	1.2772	4 45.4	0.8911	7.782
12	1.3	0.7780	1.627	1.1072	21 44.4	1.2776	4 41.2	0.8887	7.739
13	1.4	0.7808	1.634	1.1084	21 44.9	1.2780	4 37.0	0.8861	7.693
14	1.5	0.7835	+1.641	1.1096	21 45.5	1.2785	4 32.7	0.8834	+7.646

Tag	f'	g'	G'	Allgemeine Präzession seit 1929.0	$\Delta\psi$	$\Delta\psi'$	Wahre Schiefe	$\Delta\varepsilon$	$\Delta\varepsilon'$
	0h Welt-Zeit								
1929	s in 0.001	s in 0.01	h	"	"	" in 0.01	23° 27' "	"	" in 0.01
Sept. 3	+15	+11	22.1	+33.74	−11.36	+24	1.31	+6.90	+ 5
4	+10	11	20.5	33.87	11.39	+17	1.36	6.92	+ 9
5	+ 5	11	19.1	34.01	11.41	+ 8	1.39	6.93	+10
6	− 1	10	17.7	34.15	11.43	− 2	1.40	6.95	+10
7	− 6	8	16.0	34.29	11.46	−10	1.39	6.97	+ 7
8	− 9	7	13.8	34.42	11.49	−15	1.37	6.98	+ 3
9	−10	+ 6	11.3	+34.56	−11.51	−16	1.34	+6.99	− 1
10	− 8	7	9.0	34.70	11.54	−13	1.31	7.01	− 5
11	− 5	9	7.4	34.84	11.57	− 8	1.29	7.02	− 8
12	0	9	6.1	34.97	11.60	0	1.29	7.04	− 9
13	+ 4	10	4.9	35.11	11.63	+ 7	1.30	7.05	− 9
14	+ 8	9	3.6	35.25	11.66	+13	1.33	7.06	− 7
15	+11	+ 8	2.1	+35.39	−11.69	+18	1.37	+7.07	− 4
16	+12	8	0.1	35.52	11.72	+19	1.42	7.08	0
17	+10	8	21.9	35.66	11.75	+16	1.47	7.09	+ 4
18	+ 6	9	19.8	35.80	11.78	+10	1.52	7.10	+ 8
19	0	10	18.1	35.94	11.81	0	1.55	7.11	+10
20	− 6	11	16.5	36.08	11.84	−10	1.56	7.12	+10
21	−12	+11	15.1	+36.21	−11.87	−20	1.55	+7.13	+ 8
22	−16	12	13.5	36.35	11.91	−27	1.51	7.13	+ 4
23	−17	11	11.8	36.49	11.94	−28	1.47	7.14	− 1
24	−15	11	10.0	36.63	11.97	−24	1.42	7.15	− 5
25	− 9	11	8.1	36.76	12.00	−15	1.39	7.15	− 9
26	− 1	11	6.3	36.90	12.03	− 2	1.38	7.15	−11
27	+ 6	+10	4.5	+37.04	−12.07	+10	1.39	+7.16	−10
28	+12	10	2.6	37.18	12.10	+20	1.43	7.16	− 6
29	+16	10	0.6	37.31	12.13	+25	1.48	7.16	− 2
30	+15	10	22.7	37.45	12.16	+25	1.53	7.17	+ 3
Okt. 1	+12	11	21.0	37.59	12.19	+19	1.57	7.17	+ 8
2	+ 6	11	19.4	37.73	12.22	+10	1.59	7.17	+10
3	0	+10	18.0	+37.86	−12.25	0	1.59	+7.17	+10
4	− 6	9	16.4	38.00	12.28	− 9	1.57	7.17	+ 8
5	− 9	7	14.4	38.14	12.31	−15	1.53	7.17	+ 4
6	−10	7	12.0	38.28	12.34	−17	1.48	7.16	0
7	− 9	7	9.7	38.41	12.37	−15	1.44	7.16	− 4
8	− 6	8	7.9	38.55	12.39	−10	1.40	7.16	− 7
9	− 2	+ 9	6.5	+38.69	−12.42	− 3	1.38	+7.15	− 9
10	+ 3	10	5.3	38.83	12.45	+ 4	1.37	7.15	−10
11	+ 7	9	4.1	38.96	12.47	+11	1.37	7.14	− 8
12	+10	8	2.7	39.10	12.49	+16	1.40	7.14	− 5
13	+11	7	0.8	39.24	12.52	+18	1.43	7.13	− 2
14	+10	+ 7	22.5	+39.38	−12.54	+17	1.46	+7.13	+ 3

Tag	0h Welt-Zeit								
	St.-Zt. Grw.	t	f	$\log g$	G	$\log h$	H	$\log i$	i
1929	h	h	s		h m		h m		"
Okt. 14	1.5	0.7835	+1.641	1.1096	21 45.5	1.2785	4 32.7	0.8834	+7.646
15	1.5	0.7862	1.648	1.1108	21 46.0	1.2789	4 28.5	0.8806	7.597
16	1.6	0.7890	1.655	1.1119	21 46.6	1.2794	4 24.3	0.8777	7.545
17	1.7	0.7917	1.662	1.1131	21 47.2	1.2799	4 20.1	0.8745	7.491
18	1.7	0.7944	1.670	1.1143	21 47.8	1.2804	4 15.9	0.8712	7.434
19	1.8	0.7972	1.677	1.1155	21 48.4	1.2809	4 11.7	0.8678	7.375
20	1.9	0.7999	+1.685	1.1167	21 49.0	1.2815	4 7.5	0.8642	+7.314
21	1.9	0.8027	1.692	1.1179	21 49.6	1.2820	4 3.3	0.8604	7.251
22	2.0	0.8054	1.700	1.1191	21 50.2	1.2826	3 59.1	0.8564	7.185
23	2.1	0.8081	1.708	1.1203	21 50.8	1.2831	3 55.0	0.8523	7.117
24	2.1	0.8109	1.715	1.1215	21 51.5	1.2837	3 50.8	0.8480	7.047
25	2.2	0.8136	1.723	1.1228	21 52.1	1.2843	3 46.7	0.8435	6.975
26	2.3	0.8163	+1.731	1.1240	21 52.7	1.2849	3 42.5	0.8389	+6.901
27	2.3	0.8191	1.739	1.1253	21 53.4	1.2855	3 38.4	0.8340	6.824
28	2.4	0.8218	1.747	1.1265	21 54.0	1.2862	3 34.3	0.8290	6.745
29	2.5	0.8246	1.755	1.1278	21 54.7	1.2868	3 30.2	0.8238	6.665
30	2.5	0.8273	1.764	1.1291	21 55.4	1.2874	3 26.1	0.8184	6.582
31	2.6	0.8300	1.772	1.1304	21 56.0	1.2880	3 22.0	0.8127	6.497
Nov. 1	2.7	0.8328	+1.781	1.1317	21 56.7	1.2887	3 17.9	0.8069	+6.410
2	2.7	0.8355	1.789	1.1330	21 57.4	1.2893	3 13.9	0.8008	6.321
3	2.8	0.8383	1.798	1.1344	21 58.1	1.2900	3 9.8	0.7946	6.231
4	2.9	0.8410	1.807	1.1357	21 58.8	1.2906	3 5.8	0.7881	6.139
5	2.9	0.8437	1.816	1.1371	21 59.5	1.2913	3 1.7	0.7813	6.044
6	3.0	0.8465	1.825	1.1385	22 0.1	1.2920	2 57.7	0.7743	5.947
7	3.0	0.8492	+1.834	1.1399	22 0.8	1.2926	2 53.7	0.7670	+5.848
8	3.1	0.8519	1.843	1.1413	22 1.5	1.2933	2 49.7	0.7595	5.748
9	3.2	0.8547	1.853	1.1427	22 2.2	1.2939	2 45.7	0.7517	5.646
10	3.2	0.8574	1.862	1.1442	22 2.9	1.2946	2 41.7	0.7437	5.542
11	3.3	0.8602	1.872	1.1457	22 3.6	1.2952	2 37.7	0.7353	5.436
12	3.4	0.8629	1.881	1.1472	22 4.3	1.2959	2 33.8	0.7266	5.329
13	3.4	0.8656	+1.891	1.1487	22 5.0	1.2965	2 29.8	0.7177	+5.220
14	3.5	0.8684	1.901	1.1503	22 5.7	1.2971	2 25.9	0.7083	5.109
15	3.6	0.8711	1.910	1.1518	22 6.4	1.2978	2 21.9	0.6987	4.997
16	3.6	0.8738	1.920	1.1534	22 7.1	1.2984	2 18.0	0.6887	4.883
17	3.7	0.8766	1.930	1.1549	22 7.7	1.2990	2 14.1	0.6783	4.768
18	3.8	0.8793	1.940	1.1565	22 8.4	1.2996	2 10.2	0.6675	4.651
19	3.8	0.8821	+1.951	1.1581	22 9.1	1.3002	2 6.3	0.6563	+4.532
20	3.9	0.8848	1.961	1.1597	22 9.8	1.3008	2 2.4	0.6446	4.412
21	4.0	0.8875	1.972	1.1614	22 10.4	1.3014	1 58.5	0.6326	4.291
22	4.0	0.8903	1.982	1.1630	22 11.1	1.3019	1 54.6	0.6200	4.169
23	4.1	0.8930	1.993	1.1647	22 11.8	1.3025	1 50.8	0.6069	4.045
24	4.2	0.8957	+2.004	1.1664	22 12.4	1.3030	1 46.9	0.5932	+3.919

Tag	0ʰ Welt-Zeit								
	f'	g'	G'	Allgemeine Präzession seit 1929.0	$\Delta\psi$	$\Delta\psi'$	Wahre Schiefe	$\Delta\varepsilon$	$\Delta\varepsilon'$
1929	in 0.ˢ001	in 0.″01				in 0.″01	23° 27′		in 0.″01
Okt. 14	+10	+ 7	22.ʰ5	+39.′38	−12.″54	+17	1.″46	+7.″13	+ 3
15	+ 7	8	20.3	39.52	12.56	+11	1.49	7.12	+ 7
16	+ 2	9	18.5	39.65	12.58	+ 3	1.51	7.11	+ 9
17	− 4	11	16.9	39.79	12.60	− 7	1.51	7.11	+10
18	−11	11	15.5	39.93	12.61	−18	1.49	7.10	+ 9
19	−15	11	14.0	40.07	12.63	−25	1.45	7.09	+ 6
20	−17	+11	12.4	+40.20	−12.65	−28	1.39	+7.08	+ 1
21	−16	11	10.6	40.34	12.66	−26	1.33	7.07	− 4
22	−11	11	8.6	40.48	12.67	−17	1.27	7.06	− 8
23	− 3	11	6.7	40.62	12.68	− 5	1.24	7.05	−11
24	+ 5	11	4.9	40.75	12.69	+ 8	1.23	7.04	−10
25	+12	11	3.0	40.89	12.70	+19	1.24	7.03	− 8
26	+16	+11	1.2	+41.03	−12.71	+26	1.27	+7.01	− 3
27	+17	11	23.3	41.17	12.72	+27	1.31	7.00	+ 2
28	+14	11	21.6	41.30	12.72	+23	1.35	6.99	+ 7
29	+ 8	11	20.0	41.44	12.72	+14	1.36	6.98	+10
30	+ 2	11	18.5	41.58	12.72	+ 3	1.36	6.96	+10
31	− 4	9	16.9	41.72	12.72	− 7	1.33	6.95	+ 9
Nov. 1	− 9	+ 8	15.0	+41.85	−12.72	−14	1.28	+6.94	+ 6
2	−11	7	12.8	41.99	12.72	−17	1.22	6.92	+ 1
3	−10	7	10.4	42.13	12.71	−17	1.16	6.91	− 3
4	− 8	8	8.4	42.27	12.71	−12	1.11	6.90	− 7
5	− 3	9	6.9	42.40	12.70	− 5	1.08	6.88	− 9
6	+ 1	10	5.7	42.54	12.69	+ 2	1.05	6.87	−10
7	+ 6	+ 9	4.5	+42.68	−12.68	+ 9	1.05	+6.86	− 9
8	+ 9	9	3.1	42.82	12.67	+15	1.06	6.84	− 6
9	+11	7	1.4	42.96	12.65	+18	1.08	6.83	− 3
10	+10	7	23.1	43.09	12.63	+17	1.10	6.82	+ 2
11	+ 8	8	20.7	43.23	12.62	+13	1.13	6.80	+ 6
12	+ 3	9	18.9	43.37	12.60	+ 5	1.15	6.79	+ 9
13	− 3	+11	17.2	+43.51	−12.58	− 5	1.15	+6.77	+10
14	−10	12	15.8	43.64	12.55	−16	1.13	6.76	+10
15	−15	12	14.5	43.78	12.53	−24	1.09	6.75	+ 7
16	−18	12	12.9	43.92	12.50	−29	1.03	6.73	+ 3
17	−17	11	11.2	44.06	12.48	−28	0.96	6.72	− 2
18	−13	11	9.3	44.19	12.45	−21	0.90	6.71	− 7
19	− 6	+11	7.4	+44.33	−12.42	−10	0.86	+6.70	−10
20	+ 2	11	5.4	44.47	12.39	+ 4	0.83	6.68	−11
21	+10	11	3.6	44.61	12.35	+16	0.84	6.67	− 9
22	+15	11	1.7	44.74	12.32	+25	0.87	6.66	− 5
23	+18	11	23.9	44.88	12.28	+29	0.91	6.65	0
24	+16	+12	22.2	+45.02	−12.25	+26	0.94	+6.64	+ 5

Tag	St.-Zt. Grw.	t	f	log g	G	log h	H	log i	i
	0h Welt-Zeit								
1929									
Nov. 24	h 4.2	s 0.8957	s +2.004	1.1664	h m 22 12.4	1.3030	h m 1 46.9	0.5932	" +3.919
25	4.2	0.8985	2.014	1.1681	22 13.1	1.3035	1 43.1	0.5789	3.792
26	4.3	0.9012	2.025	1.1699	22 13.7	1.3040	1 39.2	0.5640	3.664
27	4.4	0.9040	2.036	1.1716	22 14.3	1.3045	1 35.4	0.5484	3.535
28	4.4	0.9067	2.047	1.1734	22 14.9	1.3050	1 31.6	0.5321	3.405
29	4.5	0.9094	2.058	1.1751	22 15.5	1.3055	1 27.7	0.5149	3.273
30	4.6	0.9122	+2.069	1.1769	22 16.2	1.3060	1 23.9	0.4971	+3.141
Dez. 1	4.6	0.9149	2.081	1.1787	22 16.8	1.3064	1 20.1	0.4783	3.008
2	4.7	0.9176	2.092	1.1805	22 17.4	1.3068	1 16.3	0.4585	2.874
3	4.8	0.9204	2.103	1.1824	22 18.0	1.3072	1 12.5	0.4374	2.738
4	4.8	0.9231	2.115	1.1842	22 18.5	1.3076	1 8.7	0.4153	2.602
5	4.9	0.9259	2.126	1.1861	22 19.1	1.3080	1 4.9	0.3918	2.465
6	5.0	0.9286	+2.138	1.1879	22 19.6	1.3083	1 1.2	0.3668	+2.327
7	5.0	0.9313	2.150	1.1898	22 20.2	1.3086	0 57.4	0.3400	2.188
8	5.1	0.9341	2.161	1.1917	22 20.7	1.3089	0 53.6	0.3113	2.048
9	5.1	0.9368	2.173	1.1936	22 21.2	1.3092	0 49.9	0.2806	1.908
10	5.2	0.9396	2.185	1.1955	22 21.7	1.3095	0 46.1	0.2475	1.768
11	5.3	0.9423	2.197	1.1974	22 22.2	1.3098	0 42.4	0.2114	1.627
12	5.3	0.9450	+2.208	1.1993	22 22.7	1.3100	0 38.6	0.1717	+1.485
13	5.4	0.9478	2.220	1.2012	22 23.2	1.3102	0 34.9	0.1278	1.342
14	5.5	0.9505	2.232	1.2031	22 23.7	1.3104	0 31.1	0.0788	1.199
15	5.5	0.9532	2.244	1.2051	22 24.1	1.3105	0 27.4	0.0237	1.056
16	5.6	0.9560	2.256	1.2070	22 24.6	1.3107	0 23.6	9.9605	0.913
17	5.7	0.9587	2.268	1.2090	22 25.0	1.3108	0 19.9	9.8859	0.769
18	5.7	0.9615	+2.280	1.2109	22 25.4	1.3109	0 16.1	9.7959	+0.625
19	5.8	0.9642	2.292	1.2129	22 25.8	1.3110	0 12.4	9.6812	0.480
20	5.9	0.9669	2.304	1.2148	22 26.2	1.3111	0 8.7	9.5250	0.335
21	5.9	0.9697	2.316	1.2167	22 26.6	1.3111	0 4.9	9.2788	0.190
22	6.0	0.9724	2.328	1.2187	22 27.0	1.3111	0 1.2	8.6532	+0.045
23	6.1	0.9751	2.341	1.2206	22 27.3	1.3111	23 57.4	8.9956_n	−0.099
24	6.1	0.9779	+2.353	1.2226	22 27.7	1.3111	23 53.7	9.3874_n	−0.244
25	6.2	0.9806	2.365	1.2246	22 28.0	1.3110	23 50.0	9.5899_n	0.389
26	6.3	0.9834	2.377	1.2265	22 28.3	1.3110	23 46.2	9.7267_n	0.533
27	6.3	0.9861	2.389	1.2285	22 28.6	1.3109	23 42.5	9.8306_n	0.677
28	6.4	0.9888	2.401	1.2304	22 28.9	1.3108	23 38.7	9.9143_n	0.821
29	6.5	0.9916	2.413	1.2323	22 29.2	1.3106	23 35.0	9.9845_n	0.965
30	6.5	0.9943	+2.425	1.2343	22 29.5	1.3105	23 31.2	0.0449_n	−1.109
31	6.6	0.9970	2.437	1.2362	22 29.8	1.3103	23 27.5	0.0980_n	1.253
32	6.7	0.9998	+2.449	1.2381	22 30.0	1.3101	23 23.7	0.1449_n	−1.396

Tag	f'	g'	G'	Allgemeine Präzession seit 1929.0	$\Delta\psi$	$\Delta\psi'$	Wahre Schiefe	$\Delta\varepsilon$	$\Delta\varepsilon'$
	0h Welt-Zeit								
1929	in 0.s001	in 0.s01				in 0."01	23° 27′		in 0."01
Nov. 24	+16	+12	22.h2	+45."02	−12."25	+26	0."94	+6."64	+ 5
25	+11	11	20.7	45.16	12.21	+18	0.97	6.62	+ 9
26	+ 5	11	19.2	45.29	12.17	+ 8	0.97	6.61	+10
27	− 2	10	17.6	45.43	12.13	− 3	0.95	6.61	+10
28	− 7	8	15.8	45.57	12.08	−11	0.92	6.60	+ 7
29	−10	7	13.6	45.71	12.04	−16	0.86	6.59	+ 3
30	−10	+ 7	11.1	+45.85	−11.99	−17	0.81	+6.58	− 2
Dez. 1	− 8	8	9.0	45.98	11.95	−14	0.76	6.57	− 6
2	− 5	9	7.3	46.12	11.90	− 8	0.72	6.56	− 8
3	0	10	6.0	46.26	11.85	0	0.70	6.55	−10
4	+ 5	10	4.8	46.40	11.80	+ 7	0.70	6.55	− 9
5	+ 8	9	3.5	46.53	11.75	+14	0.71	6.54	− 7
6	+11	+ 8	2.0	+46.67	−11.70	+17	0.74	+6.54	− 4
7	+11	7	23.8	46.81	11.64	+18	0.77	6.53	0
8	+ 9	7	21.5	46.95	11.59	+14	0.81	6.53	+ 4
9	+ 4	8	19.3	47.08	11.54	+ 7	0.84	6.52	+ 8
10	− 2	10	17.6	47.22	11.48	− 3	0.86	6.52	+10
11	− 8	12	16.2	47.36	11.43	−13	0.85	6.52	+10
12	−14	+12	14.8	+47.50	−11.37	−23	0.83	+6.52	+ 8
13	−18	13	13.3	47.63	11.31	−30	0.79	6.51	+ 4
14	−19	12	11.7	47.77	11.25	−31	0.74	6.51	− 1
15	−16	12	10.1	47.91	11.20	−26	0.69	6.51	− 6
16	−10	11	8.2	48.05	11.14	−16	0.65	6.51	− 9
17	− 1	11	6.3	48.18	11.08	− 2	0.63	6.52	−11
18	+ 7	+11	4.3	+48.32	−11.02	+12	0.64	+6.52	−10
19	+14	11	2.4	48.46	10.96	+23	0.68	6.52	− 6
20	+17	11	0.5	48.60	10.90	+28	0.73	6.52	− 2
21	+17	12	22.8	48.73	10.84	+28	0.79	6.53	+ 4
22	+14	12	21.2	48.87	10.78	+22	0.83	6.53	+ 8
23	+ 8	11	19.7	49.01	10.72	+13	0.86	6.54	+10
24	+ 1	+10	18.3	+49.15	−10.66	+ 2	0.87	+6.55	+10
25	− 5	9	16.7	49.29	10.60	− 7	0.85	6.55	+ 8
26	− 8	7	14.5	49.42	10.54	−14	0.82	6.56	+ 4
27	−10	6	11.8	49.56	10.48	−16	0.78	6.57	0
28	− 8	7	9.3	49.70	10.42	−14	0.74	6.58	− 5
29	− 5	9	7.5	49.84	10.36	− 9	0.72	6.59	− 8
30	− 1	+ 9	6.2	+49.97	−10.30	− 1	0.71	+6.60	− 9
31	+ 4	10	5.0	50.11	10.25	+ 6	0.72	6.61	− 9
32	+ 8	+ 9	3.8	+50.25	−10.19	+13	0.75	+6.62	− 8

Reduktionsgrößen 1929

für 12^h Sternzeit Greenwich

Welt-Zeit	t	A		A'	B		B'	C		D	
1929				in 0.00001	"		in 0.001	"		"	
Jan. 0.224	−0.0017	−0.28084	379	+525	−4.350	14	− 54	− 3.042	329	+20.199	62
1.221	+0.0010	0.27705	379	+377	4.364	15	− 85	3.371	327	20.137	68
2.218	0.0038	0.27326	377	+184	4.379	15	− 97	3.698	326	20.069	75
3.216	0.0065	0.26949	376	− 16	4.394	16	− 90	4.024	325	19.994	81
4.213	0.0092	0.26573	374	−184	4.410	16	− 67	4.349	323	19.913	87
5.210	0.0120	0.26199	373	−293	4.426	17	− 32	4.672	322	19.826	93
6.208	0.0147	−0.25826	371	−338	−4.443	17	+ 7	− 4.994	321	+19.733	100
7.205	0.0174	0.25455	369	−312	4.460	18	+ 45	5.315	319	19.633	106
8.202	0.0202	0.25086	368	−228	4.478	19	+ 75	5.634	317	19.527	112
9.199	0.0229	0.24718	366	−101	4.497	20	+ 91	5.951	315	19.415	118
10.197	0.0256	0.24352	363	+ 47	4.517	20	+ 94	6.266	313	19.297	124
11.194	0.0284	0.23989	361	+193	4.537	20	+ 78	6.579	311	19.173	130
12.191	0.0311	−0.23628	360	+297	−4.557	21	+ 48	− 6.890	308	+19.043	136
13.188	0.0338	0.23268	357	+336	4.578	21	+ 7	7.198	306	18.907	142
14.186	0.0365	0.22911	354	+294	4.599	22	− 38	7.504	304	18.765	148
15.183	0.0393	0.22557	352	+166	4.621	22	− 78	7.808	302	18.617	154
16.180	0.0420	0.22205	349	− 27	4.643	23	−101	8.110	299	18.463	159
17.177	0.0447	0.21856	347	−248	4.666	23	−102	8.409	296	18.304	165
18.175	0.0475	−0.21509	344	−440	−4.689	24	− 80	− 8.705	294	+18.139	172
19.172	0.0502	0.21165	341	−554	4.713	24	− 37	8.999	291	17.967	177
20.169	0.0529	0.20824	339	−562	4.737	24	+ 12	9.290	287	17.790	182
21.167	0.0557	0.20485	336	−450	4.761	24	+ 61	9.577	284	17.608	187
22.164	0.0584	0.20149	333	−239	4.785	25	+ 95	9.861	281	17.421	193
23.161	0.0611	0.19816	330	+ 18	4.810	25	+104	10.142	278	17.228	198
24.158	0.0638	−0.19486	327	+272	−4.835	25	+ 91	−10.420	275	+17.030	204
25.156	0.0666	0.19159	324	+462	4.860	26	+ 56	10.695	272	16.826	209
26.153	0.0693	0.18835	321	+554	4.886	26	+ 9	10.967	268	16.617	214
27.150	0.0720	0.18514	318	+535	4.912	26	− 37	11.235	264	16.403	219
28.147	0.0748	0.18196	315	+420	4.938	26	− 75	11.499	261	16.184	224
29.145	0.0775	0.17881	312	+243	4.964	26	− 95	11.760	257	15.960	229
30.142	0.0802	−0.17569	309	+ 46	−4.990	27	− 95	−12.017	253	+15.731	234
31.139	0.0830	0.17260	306	−131	5.017	26	− 78	12.270	249	15.497	239
Febr. 1.137	0.0857	0.16954	302	−260	5.043	27	− 46	12.519	245	15.258	243
2.134	0.0884	0.16652	299	−327	5.070	26	− 6	12.764	241	15.015	248
3.131	0.0912	0.16353	296	−323	5.096	27	+ 31	13.005	237	14.767	252
4.128	0.0939	0.16057	293	−257	5.123	26	+ 64	13.242	233	14.515	257
5.126	0.0966	−0.15764	289	−143	−5.149	27	+ 87	−13.475	229	+14.258	261
6.123	0.0993	0.15475	286	+ 1	5.176	26	+ 95	13.704	224	13.997	266
7.120	0.1021	0.15189	283	+151	5.202	27	+ 86	13.928	220	13.731	270
8.117	0.1048	0.14906	280	+274	5.229	26	+ 61	14.148	215	13.461	274
9.115	0.1075	0.14626	277	+345	5.255	26	+ 22	14.363	211	13.187	278
10.112	0.1103	−0.14349		+339	−5.281		− 23	−14.574		+12.909	

Reduktionsgrößen 1929

für 12ʰ Sternzeit Greenwich

Welt-Zeit	t	A		A'	B		B'	C		D	
1929				in 0.0001	″		in 0.001	″		″	
Febr. 10.112	0.1103	−0.14349	274	+339	−5.281	26	− 23	−14.574	206	+12.909	282
11.109	0.1130	0.14075	271	+248	5.307	26	− 64	14.780	202	12.627	286
12.107	0.1157	0.13804	268	+ 79	5.333	26	− 95	14.982	197	12.341	289
13.104	0.1185	0.13536	265	−133	5.359	25	−105	15.179	192	12.052	293
14.101	0.1212	0.13271	262	−340	5.384	25	− 93	15.371	187	11.759	296
15.098	0.1239	0.13009	258	−493	5.409	25	− 57	15.558	183	11.463	300
16.096	0.1266	−0.12751	256	−552	−5.434	24	− 8	−15.741	178	+11.163	303
17.093	0.1294	0.12495	253	−494	5.458	24	+ 42	15.919	172	10.860	306
18.090	0.1321	0.12242	250	−326	5.482	24	+ 84	16.091	167	10.554	309
19.087	0.1348	0.11992	248	− 88	5.506	23	+104	16.258	163	10.245	313
20.085	0.1376	0.11744	245	+164	5.529	23	+100	16.421	157	9.932	316
21.082	0.1403	0.11499	243	+378	5.552	22	+ 73	16.578	152	9.616	318
22.079	0.1430	−0.11256	240	+505	−5.574	22	+ 29	−16.730	147	+ 9.298	321
23.076	0.1458	0.11016	237	+529	5.596	22	− 19	16.877	141	8.977	324
24.074	0.1485	0.10779	235	+448	5.618	22	− 62	17.018	136	8.653	326
25.071	0.1512	0.10544	233	+292	5.640	21	− 91	17.154	132	8.327	328
26.068	0.1540	0.10311	231	+ 98	5.661	20	− 98	17.286	126	7.999	330
27.066	0.1567	0.10080	228	− 88	5.681	20	− 88	17.412	121	7.669	333
28.063	0.1594	−0.09852	226	−235	−5.701	19	− 60	−17.533	115	+ 7.336	335
März 1.060	0.1621	0.09626	225	−322	5.720	19	− 20	17.648	109	7.001	337
2.057	0.1649	0.09401	223	−339	5.739	18	+ 17	17.757	104	6.664	339
3.055	0.1676	0.09178	220	−291	5.757	18	+ 54	17.861	98	6.325	340
4.052	0.1703	0.08958	219	−191	5.775	17	+ 82	17.959	93	5.985	342
5.049	0.1731	0.08739	217	− 55	5.792	17	+ 94	18.052	87	5.643	344
6.046	0.1758	−0.08522	216	+ 95	−5.809	16	+ 92	−18.139	82	+ 5.299	345
7.044	0.1785	0.08306	214	+229	5.825	15	+ 72	18.221	77	4.954	347
8.041	0.1813	0.08092	213	+322	5.840	15	+ 38	18.298	71	4.607	348
9.038	0.1840	0.07879	212	+346	5.855	14	− 5	18.369	65	4.259	349
10.036	0.1867	0.07667	211	+291	5.869	13	− 49	18.434	59	3.910	350
11.033	0.1894	0.07456	210	+158	5.882	13	− 85	18.493	54	3.560	350
12.030	0.1922	−0.07246	209	− 36	−5.895	12	−104	−18.547	48	+ 3.210	351
13.027	0.1949	0.07037	208	−244	5.907	12	−100	18.595	43	2.859	352
14.025	0.1976	0.06829	207	−420	5.919	11	− 74	18.638	37	2.507	353
15.022	0.2004	0.06622	207	−517	5.930	10	− 29	18.675	32	2.154	353
16.019	0.2031	0.06415	206	−503	5.940	10	+ 21	18.707	26	1.801	353
17.016	0.2058	0.06209	206	−378	5.950	9	+ 68	18.733	20	1.448	354
18.014	0.2086	−0.06003	206	−165	−5.959	8	+ 99	−18.753	14	+ 1.094	354
19.011	0.2113	0.05797	205	+ 84	5.967	8	+105	18.767	9	0.740	354
20.008	0.2140	0.05592	206	+316	5.975	7	+ 86	18.776	3	0.386	354
21.006	0.2168	0.05386	205	+478	5.982	6	+ 49	18.779	2	+ 0.032	354
22.003	0.2195	0.05181	205	+537	5.988	5	− 1	18.777	8	− 0.322	353
23.000	0.2222	−0.04976		+488	−5.993		− 47	−18.769		− 0.675	

Reduktionsgrößen 1929

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Welt-Zeit	t	A	Δ	A′	B	Δ	B′	C	Δ	D	Δ
1929	a			in 0.00001	″		in 0.001	″		″	
März 23.000	0.2222	−0.04976	206	+488	−5.993	5	− 47	−18.769	13	− 0.675	353
23.997	0.2249	0.04770	206	+350	5.998	4	− 81	18.756	19	1.028	352
24.995	0.2277	0.04564	207	+159	6.002	4	− 98	18.737	25	1.380	352
25.992	0.2304	0.04357	207	− 35	6.006	3	− 93	18.712	30	1.732	351
26.989	0.2331	0.04150	208	−204	6.009	2	− 73	18.682	36	2.083	350
27.986	0.2359	0.03942	209	−312	6.011	2	− 36	18.646	41	2.433	349
28.984	0.2386	−0.03733	209	−354	−6.013	1	+ 4	−18.605	47	− 2.782	349
29.981	0.2413	0.03524	210	−327	6.014	1	+ 42	18.558	52	3.131	348
30.978	0.2441	0.03314	212	−241	6.015	0	+ 74	18.506	58	3.479	346
31.975	0.2468	0.03102	213	−114	6.015	1	+ 92	18.448	63	3.825	345
April 1.973	0.2495	0.02889	214	+ 29	6.014	1	+ 94	18.385	68	4.170	343
2.970	0.2522	0.02675	215	+171	6.013	2	+ 81	18.317	73	4.513	341
3.967	0.2550	−0.02460	216	+278	−6.011	2	+ 51	−18.244	79	− 4.854	340
4.965	0.2577	0.02244	218	+330	6.009	3	+ 12	18.165	84	5.194	338
5.962	0.2604	0.02026	219	+304	6.006	4	− 32	18.081	90	5.532	337
6.959	0.2632	0.01807	221	+200	6.002	4	− 73	17.991	95	5.869	335
7.956	0.2659	0.01586	223	+ 29	5.998	5	− 99	17.896	100	6.204	332
8.954	0.2686	0.01363	225	−175	5.993	5	−105	17.796	105	6.536	330
9.951	0.2714	−0.01138	227	−364	−5.988	6	− 88	−17.691	110	− 6.866	329
10.948	0.2741	0.00911	229	−488	5.982	6	− 49	17.581	115	7.195	326
11.945	0.2768	0.00682	231	−514	5.976	7	0	17.466	120	7.521	323
12.943	0.2795	0.00451	233	−427	5.969	7	+ 51	17.346	125	7.844	321
13.940	0.2823	−0.00218	234	−237	5.962	8	+ 89	17.221	130	8.165	319
14.937	0.2850	+0.00016	237	+ 9	5.954	8	+106	17.091	135	8.484	316
15.935	0.2877	+0.00253	239	+259	−5.946	8	+ 98	−16.956	140	− 8.800	314
16.932	0.2905	0.00492	242	+456	5.938	8	+ 66	16.816	145	9.114	311
17.929	0.2932	0.00734	244	+556	5.930	9	+ 20	16.671	149	9.425	307
18.926	0.2959	0.00978	246	+543	5.921	9	− 29	16.522	154	9.732	304
19.924	0.2987	0.01224	249	+431	5.912	10	− 70	16.368	159	10.036	302
20.921	0.3014	0.01473	252	+250	5.902	10	− 94	16.209	164	10.338	299
21.918	0.3041	+0.01725	254	+ 45	−5.892	10	− 98	−16.045	168	−10.637	295
22.915	0.3069	0.01979	257	−145	5.882	10	− 83	15.877	172	10.932	292
23.913	0.3096	0.02236	259	−283	5.872	11	− 52	15.705	177	11.224	289
24.910	0.3123	0.02495	262	−352	5.861	11	− 12	15.528	181	11.513	285
25.907	0.3150	0.02757	265	−348	5.850	11	+ 28	15.347	185	11.798	281
26.904	0.3178	0.03022	268	−282	5.839	11	+ 62	15.162	190	12.079	278
27.902	0.3205	+0.03290	270	−167	−5.828	11	+ 86	−14.972	194	−12.357	274
28.899	0.3232	0.03560	273	− 27	5.817	11	+ 94	14.778	198	12.631	270
29.896	0.3260	0.03833	275	+117	5.806	12	+ 88	14.580	202	12.901	267
30.894	0.3287	0.04108	278	+237	5.794	11	+ 64	14.378	206	13.168	263
Mai 1.891	0.3314	0.04386	282	+304	5.783	12	+ 29	14.172	210	13.431	258
2.888	0.3342	+0.04668		+305	−5.771		− 15	−13.962		−13.689	

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Welt-Zeit	t	A	Δ	A′	B	Δ	B′	C	Δ	D	Δ
1929				in 0.00001			in 0.001				
Mai 2.888	0.3342	+0.04668	284	+305	−5.771	12	−15	−13.962	214	−13.689	255
3.885	0.3369	0.04952	287	+227	5.759	12	−57	13.748	217	13.944	251
4.883	0.3396	0.05239	290	+76	5.747	12	−90	13.531	221	14.195	247
5.880	0.3423	0.05529	293	−123	5.735	12	−104	13.310	226	14.442	242
6.877	0.3451	0.05822	295	−325	5.723	12	−97	13.084	229	14.684	238
7.874	0.3478	0.06117	298	−477	5.711	11	−67	12.855	232	14.922	233
8.872	0.3505	+0.06415	301	−543	−5.700	12	−20	−12.623	236	−15.155	229
9.869	0.3533	0.06716	303	−494	5.688	11	+32	12.387	239	15.384	225
10.866	0.3560	0.07019	306	−335	5.677	12	+76	12.148	242	15.609	220
11.864	0.3587	0.07325	309	−96	5.665	11	+103	11.906	246	15.829	216
12.861	0.3615	0.07634	312	+171	5.654	11	+104	11.660	249	16.045	211
13.858	0.3642	0.07946	314	+405	5.643	11	+81	11.411	251	16.256	207
14.855	0.3669	+0.08260	317	+553	−5.632	11	+40	−11.160	255	−16.463	202
15.853	0.3697	0.08577	319	+591	5.621	10	−9	10.905	258	16.665	197
16.850	0.3724	0.08896	322	+518	5.611	10	−55	10.647	261	16.862	192
17.847	0.3751	0.09218	325	+356	5.601	10	−89	10.386	264	17.054	188
18.844	0.3778	0.09543	327	+149	5.591	10	−100	10.122	267	17.242	183
19.842	0.3806	0.09870	330	−55	5.581	9	−91	9.855	269	17.425	177
20.839	0.3833	+0.10200	332	−220	−5.572	9	−66	−9.586	271	−17.602	172
21.836	0.3860	0.10532	333	−320	5.563	9	−27	9.315	274	17.774	168
22.834	0.3888	0.10865	336	−348	5.554	8	+13	9.041	276	17.942	162
23.831	0.3915	0.11201	338	−301	5.546	8	+51	8.765	279	18.104	157
24.828	0.3942	0.11539	341	−202	5.538	8	+80	8.486	281	18.261	152
25.825	0.3970	0.11880	343	−66	5.530	7	+94	8.205	283	18.413	147
26.823	0.3997	+0.12223	345	+76	−5.523	7	+92	−7.922	285	−18.560	142
27.820	0.4024	0.12568	347	+204	5.516	7	+75	7.637	288	18.702	136
28.817	0.4051	0.12915	349	+291	5.509	6	+43	7.349	290	18.838	131
29.814	0.4079	0.13264	350	+314	5.503	6	+2	7.059	291	18.969	126
30.812	0.4106	0.13614	352	+260	5.497	5	−42	6.768	293	19.095	120
31.809	0.4133	0.13966	354	+127	5.492	5	−80	6.475	295	19.215	115
Juni 1.806	0.4161	+0.14320	356	−64	−5.487	4	−102	−6.180	297	−19.330	110
2.803	0.4188	0.14676	357	−275	5.483	4	−102	5.883	298	19.440	104
3.801	0.4215	0.15033	359	−460	5.479	3	−81	5.585	299	19.544	99
4.798	0.4243	0.15392	360	−569	5.476	3	−39	5.286	301	19.643	93
5.795	0.4270	0.15752	361	−569	5.473	2	+10	4.985	302	19.736	88
6.793	0.4297	0.16113	363	−450	5.471	2	+59	4.683	304	19.824	82
7.790	0.4325	+0.16476	364	−231	−5.469	1	+94	−4.379	305	−19.906	77
8.787	0.4352	0.16840	365	+38	5.468	1	+107	4.074	306	19.983	71
9.784	0.4379	0.17205	366	+302	5.467	0	+93	3.768	307	20.054	66
10.782	0.4406	0.17571	367	+501	5.467	0	+60	3.461	307	20.120	60
11.779	0.4434	0.17938	368	+596	5.467	1	+12	3.154	308	20.180	54
12.776	0.4461	+0.18306		+573	−5.468		−38	−2.846		−20.234	

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Welt-Zeit	t	A	Δ	A'	B	Δ	B'	C	Δ	D	Δ
1929	"			in 0.00001	"		in 0".001	"		"	
Juni 12.776	0.4461	+0.18306	368	+573	−5.468	1	− 38	−2.846	309	−20.234	49
13.773	0.4488	0.18674	369	+450	5.469	2	− 77	2.537	309	20.283	43
14.771	0.4516	0.19043	370	+260	5.471	3	− 98	2.228	310	20.326	38
15.768	0.4543	0.19413	370	+ 47	5.474	3	− 98	1.918	311	20.364	32
16.765	0.4570	0.19783	371	−139	5.477	4	− 77	1.607	311	20.396	26
17.763	0.4598	0.20154	371	−267	5.481	4	− 44	1.296	311	20.422	20
18.760	0.4625	+0.20525	371	−324	−5.485	5	− 2	−0.985	312	−20.442	15
19.757	0.4652	0.20896	371	−305	5.490	5	+ 38	0.673	312	20.457	9
20.754	0.4679	0.21267	372	−226	5.495	6	+ 71	0.361	312	20.466	4
21.752	0.4707	0.21639	372	− 99	5.501	7	+ 91	−0.049	312	20.470	2
22.749	0.4734	0.22011	371	+ 44	5.508	7	+ 96	+0.263	311	20.468	7
23.746	0.4761	0.22382	371	+181	5.515	8	+ 83	0.574	312	20.461	13
24.743	0.4789	+0.22753	371	+286	−5.523	8	+ 57	+0.886	311	−20.448	19
25.741	0.4816	0.23124	371	+333	5.531	9	+ 18	1.197	311	20.429	25
26.738	0.4843	0.23495	370	+305	5.540	10	− 26	1.508	310	20.404	30
27.735	0.4871	0.23865	369	+197	5.550	10	− 67	1.818	310	20.374	36
28.733	0.4898	0.24234	369	+ 20	5.560	11	− 95	2.128	309	20.338	41
29.730	0.4925	0.24603	368	−194	5.571	11	−105	2.437	309	20.297	47
30.727	0.4953	+0.24971	367	−405	−5.582	12	− 93	+2.746	308	−20.250	52
Juli 1.724	0.4980	0.25338	366	−559	5.594	12	− 58	3.054	307	20.198	58
2.722	0.5007	0.25704	366	−613	5.606	13	− 11	3.361	307	20.140	63
3.719	0.5034	0.26070	365	−550	5.619	13	+ 41	3.668	305	20.077	69
4.716	0.5062	0.26435	363	−372	5.632	14	+ 84	3.973	304	20.008	75
5.713	0.5089	0.26798	362	−120	5.646	15	+106	4.277	303	19.933	80
6.711	0.5116	+0.27160	360	+157	−5.661	15	+103	+4.580	301	−19.853	86
7.708	0.5144	0.27520	359	+395	5.676	16	+ 76	4.881	300	19.767	91
8.705	0.5171	0.27879	358	+543	5.692	16	+ 30	5.181	299	19.676	97
9.702	0.5198	0.28237	357	+579	5.708	16	− 19	5.480	297	19.579	102
10.700	0.5226	0.28594	355	+501	5.724	17	− 65	5.777	296	19.477	107
11.697	0.5253	0.28949	353	+339	5.741	17	− 94	6.073	294	19.370	113
12.694	0.5280	+0.29302	352	+136	−5.758	18	−102	+6.367	293	−19.257	118
13.692	0.5307	0.29654	350	− 61	5.776	18	− 89	6.660	291	19.139	123
14.689	0.5335	0.30004	348	−212	5.794	18	− 57	6.951	288	19.016	128
15.686	0.5362	0.30352	346	−295	5.812	19	− 18	7.239	286	18.888	133
16.683	0.5389	0.30698	344	−302	5.831	19	+ 23	7.525	285	18.755	139
17.681	0.5417	0.31042	342	−239	5.850	20	+ 61	7.810	283	18.616	144
18.678	0.5444	+0.31384	340	−127	−5.870	20	+ 85	+8.093	280	−18.472	149
19.675	0.5471	0.31724	338	+ 14	5.890	21	+ 96	8.373	278	18.323	154
20.672	0.5499	0.32062	335	+156	5.911	21	+ 89	8.651	276	18.169	159
21.670	0.5526	0.32397	333	+276	5.932	21	+ 68	8.927	273	18.010	164
22.667	0.5553	0.32730	332	+348	5.953	22	+ 33	9.200	271	17.846	169
23.664	0.5581	+0.33062		+349	−5.975		− 8	+9.471		−17.677	

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Welt-Zeit	t	A	Δ	A′	B	Δ	B′	C	Δ	D	Δ
1929				in 0.00001	″		in 0.001	″		″	
Juli 23.664	0.5581	+0.33062	329	+349	−5.975	22	− 8	+ 9.471	268	−17.677	174
24.662	0.5608	0.33391	327	+272	5.997	22	− 52	9.739	266	17.503	179
25.659	0.5635	0.33718	325	+120	6.019	22	− 86	10.005	263	17.324	184
26.656	0.5662	0.34043	322	− 88	6.041	23	−104	10.268	260	17.140	189
27.653	0.5690	0.34365	320	−308	6.064	23	−100	10.528	257	16.951	193
28.651	0.5717	0.34685	317	−496	6.087	23	− 75	10.785	254	16.758	198
29.648	0.5744	+0.35002	315	−604	−6.110	23	− 31	+11.039	251	−16.560	203
30.645	0.5772	0.35317	311	−598	6.133	24	+ 22	11.290	249	16.357	207
31.642	0.5799	0.35628	308	−474	6.157	23	+ 69	11.539	245	16.150	212
Aug. 1.640	0.5826	0.35936	307	−253	6.180	24	+101	11.784	242	15.938	216
2.637	0.5854	0.36243	303	+ 13	6.204	23	+108	12.026	239	15.722	220
3.634	0.5881	0.36546	302	+268	6.227	24	+ 90	12.265	235	15.502	225
4.631	0.5908	+0.36848	299	+457	−6.251	24	+ 50	+12.500	232	−15.277	229
5.629	0.5935	0.37147	296	+541	6.275	24	+ 1	12.732	228	15.048	234
6.626	0.5963	0.37443	293	+512	6.299	24	− 49	12.960	225	14.814	238
7.623	0.5990	0.37736	291	+383	6.323	24	− 86	13.185	221	14.576	242
8.621	0.6017	0.38027	288	+195	6.347	23	−102	13.406	218	14.334	246
9.618	0.6045	0.38315	285	− 2	6.370	24	− 97	13.624	214	14.088	250
10.615	0.6072	+0.38600	282	−167	−6.394	24	− 71	+13.838	210	−13.838	254
11.612	0.6099	0.38882	280	−271	6.418	24	− 33	14.048	206	13.584	258
12.610	0.6127	0.39162	277	−301	6.442	24	+ 9	14.254	202	13.326	261
13.607	0.6154	0.39439	275	−261	6.466	24	+ 50	14.456	199	13.065	265
14.604	0.6181	0.39714	273	−160	6.490	24	+ 79	14.655	195	12.800	269
15.601	0.6208	0.39987	268	− 26	6.514	23	+ 95	14.850	190	12.531	272
16.599	0.6236	+0.40255	266	+120	−6.537	23	+ 94	+15.040	186	−12.259	276
17.596	0.6263	0.40521	264	+251	6.560	22	+ 76	15.226	182	11.983	280
18.593	0.6290	0.40785	261	+342	6.582	23	+ 46	15.408	178	11.703	283
19.591	0.6318	0.41046	259	+375	6.605	22	+ 7	15.586	173	11.420	286
20.588	0.6345	0.41305	256	+331	6.627	23	− 38	15.759	169	11.134	290
21.585	0.6372	0.41561	254	+209	6.650	22	− 75	15.928	165	10.844	293
22.582	0.6400	+0.41815	252	+ 24	−6.672	22	−100	+16.093	160	−10.551	296
23.580	0.6427	0.42067	249	−196	6.694	21	−104	16.253	156	10.255	299
24.577	0.6454	0.42316	247	−402	6.715	21	− 87	16.409	151	9.956	302
25.574	0.6482	0.42563	245	−546	6.736	21	− 49	16.560	146	9.654	304
26.571	0.6509	0.42808	243	−592	6.757	20	+ 1	16.706	142	9.350	307
27.569	0.6536	0.43051	240	−522	6.777	20	+ 51	16.848	137	9.043	311
28.566	0.6563	+0.43291	238	−346	−6.797	20	+ 91	+16.985	132	− 8.732	313
29.563	0.6591	0.43529	236	− 98	6.817	19	+108	17.117	128	8.419	315
30.561	0.6618	0.43765	234	+159	6.836	19	+100	17.245	123	8.104	317
31.558	0.6645	0.43999	232	+372	6.855	18	+ 69	17.368	117	7.787	320
Sept. 1.555	0.6673	0.44231	230	+498	6.873	18	+ 21	17.485	113	7.467	322
2.552	0.6700	+0.44461		+506	−6.891		− 29	+17.598		− 7.145	

Reduktionsgrößen 1929

für 12^h Sternzeit Greenwich

Welt-Zeit	t	A		A'	B		B'	C		D	
1929	h			in 0.00001	"		in 0.001	"		"	
Sept. 2.552	0.6700	+0.44461	229	+506	−6.891	18	− 29	+17.598	108	−7.145	325
3.550	0.6727	0.44690	227	+411	6.909	17	− 73	17.706	103	6.820	327
4.547	0.6755	0.44917	225	+243	6.926	16	− 98	17.809	98	6.493	328
5.544	0.6782	0.45142	223	+ 45	6.942	16	−102	17.907	93	6.165	330
6.541	0.6809	0.45365	222	−137	6.958	15	− 84	18.000	88	5.835	332
7.539	0.6836	0.45587	221	−260	6.973	15	− 50	18.088	83	5.503	334
8.536	0.6864	+0.45808	219	−317	−6.988	15	− 7	+18.171	77	−5.169	336
9.533	0.6891	0.46027	218	−293	7.003	14	+ 35	18.248	72	4.833	338
10.530	0.6918	0.46245	216	−207	7.017	14	+ 69	18.320	67	4.495	339
11.528	0.6946	0.46461	215	− 79	7.031	13	+ 91	18.387	62	4.156	340
12.525	0.6973	0.46676	215	+ 67	7.044	12	+ 96	18.449	57	3.816	342
13.522	0.7000	0.46891	214	+209	7.056	11	+ 85	18.506	52	3.474	343
14.520	0.7028	+0.47105	212	+316	−7.067	11	+ 59	+18.558	46	−3.131	343
15.517	0.7055	0.47317	211	+373	7.078	10	+ 23	18.604	41	2.788	344
16.514	0.7082	0.47528	211	+359	7.088	10	− 22	18.645	35	2.444	346
17.511	0.7110	0.47739	211	+269	7.098	9	− 62	18.680	30	2.098	346
18.509	0.7137	0.47950	211	+109	7.107	8	− 92	18.710	25	1.752	347
19.506	0.7164	0.48161	210	− 95	7.115	8	−104	18.735	19	1.405	348
20.503	0.7191	+0.48371	210	−305	−7.123	7	− 96	+18.754	14	−1.057	348
21.500	0.7219	0.48581	210	−475	7.130	7	− 67	18.768	8	0.709	348
22.498	0.7246	0.48791	209	−561	7.137	6	− 20	18.776	3	0.361	349
23.495	0.7273	0.49000	209	−535	7.143	5	+ 31	18.779	3	−0.012	349
24.492	0.7301	0.49209	210	−401	7.148	5	+ 76	18.776	8	+0.337	349
25.490	0.7328	0.49419	210	−177	7.153	4	+104	18.768	13	0.686	349
26.487	0.7355	+0.49629	210	+ 78	−7.157	4	+106	+18.755	19	+1.035	349
27.484	0.7383	0.49839	211	+309	7.161	3	+ 84	18.736	24	1.384	349
28.481	0.7410	0.50050	211	+467	7.164	2	+ 42	18.712	30	1.733	349
29.479	0.7437	0.50261	212	+515	7.166	1	− 9	18.682	35	2.082	348
30.476	0.7464	0.50473	213	+455	7.167	1	− 58	18.647	41	2.430	348
Okt. 1.473	0.7492	0.50686	213	+302	7.168	0	− 92	18.606	47	2.778	347
2.470	0.7519	+0.50899	214	+103	−7.168	0	−104	+18.559	52	+3.125	346
3.468	0.7546	0.51113	215	− 94	7.168	1	− 94	18.507	57	3.471	345
4.465	0.7574	0.51328	217	−245	7.167	2	− 65	18.450	63	3.816	345
5.462	0.7601	0.51545	218	−327	7.165	2	− 23	18.387	68	4.161	344
6.460	0.7628	0.51763	218	−330	7.163	3	+ 19	18.319	74	4.505	342
7.457	0.7656	0.51981	220	−260	7.160	3	+ 58	18.245	79	4.847	341
8.454	0.7683	+0.52201	223	−140	−7.157	4	+ 85	+18.166	84	+5.188	339
9.451	0.7710	0.52424	224	+ 7	7.153	5	+ 96	18.082	90	5.527	338
10.449	0.7738	0.52648	225	+152	7.148	5	+ 91	17.992	95	5.865	337
11.446	0.7765	0.52873	227	+277	7.143	6	+ 71	17.897	101	6.202	335
12.443	0.7792	0.53100	229	+351	7.137	6	+ 37	17.796	106	6.537	334
13.440	0.7819	+0.53329		+363	−7.131		− 3	+17.690		+6.871	

Reduktionsgrößen 1929

für 12ʰ Sternzeit Greenwich

Welt-Zeit	t	A		A′	B		B′	C		D	
1929	a			in 0.00001	″		in 0.″001	″		″	
Okt. 13.440	0.7819	+0.53329	231	+363	−7.131	7	− 3	+17.690	111	+ 6.871	332
14.438	0.7847	0.53560	232	+301	7.124	7	− 46	17.579	117	7.203	329
15.435	0.7874	0.53792	235	+165	7.117	7	− 81	17.462	122	7.532	327
16.432	0.7901	0.54027	238	− 24	7.110	8	−102	17.340	127	7.859	326
17.429	0.7929	0.54265	239	−232	7.102	9	−102	17.213	132	8.185	323
18.427	0.7956	0.54504	241	−418	7.093	9	− 80	17.081	138	8.508	321
19.424	0.7983	+0.54745	244	−536	−7.084	10	− 40	+16.943	143	+ 8.829	318
20.421	0.8011	0.54989	247	−550	7.074	10	+ 11	16.800	147	9.147	316
21.419	0.8038	0.55236	249	−450	7.064	10	+ 60	16.653	153	9.463	313
22.416	0.8065	0.55485	252	−253	7.054	11	+ 96	16.500	158	9.776	310
23.413	0.8092	0.55737	255	+ 1	7.043	11	+109	16.342	163	10.086	307
24.410	0.8120	0.55992	257	+253	7.032	11	+ 97	16.179	168	10.393	305
25.408	0.8147	+0.56249	260	+444	−7.021	11	+ 61	+16.011	173	+10.698	301
26.405	0.8174	0.56509	263	+534	7.010	12	+ 12	15.838	178	10.999	298
27.402	0.8202	0.56772	266	+513	6.998	12	− 40	15.660	183	11.297	295
28.399	0.8229	0.57038	268	+386	6.986	13	− 80	15.477	187	11.592	292
29.397	0.8256	0.57306	272	+192	6.973	13	−102	15.290	192	11.884	288
30.394	0.8284	0.57578	275	− 18	6.960	13	−100	15.098	197	12.172	285
31.391	0.8311	+0.57853	278	−199	−6.947	13	− 78	+14.901	201	+12.457	281
Nov. 1.389	0.8338	0.58131	280	−314	6.934	13	− 41	14.700	206	12.738	278
2.386	0.8366	0.58411	284	−348	6.921	13	+ 3	14.494	210	13.016	274
3.383	0.8393	0.58695	287	−302	6.908	14	+ 44	14.284	215	13.290	269
4.380	0.8420	0.58982	290	−198	6.894	13	+ 76	14.069	219	13.559	265
5.378	0.8447	0.59272	293	− 56	6.881	14	+ 94	13.850	224	13.824	262
6.375	0.8475	+0.59565	296	+ 95	−6.867	14	+ 95	+13.626	228	+14.086	258
7.372	0.8502	0.59861	299	+230	6.853	14	+ 80	13.398	232	14.344	253
8.369	0.8529	0.60160	303	+322	6.839	14	+ 51	13.166	236	14.597	249
9.367	0.8557	0.60463	306	+356	6.825	14	+ 12	12.930	240	14.846	244
10.364	0.8584	0.60769	309	+318	6.811	14	− 32	12.690	244	15.090	240
11.361	0.8611	0.61078	313	+205	6.797	13	− 70	12.446	248	15.330	235
12.358	0.8639	+0.61391	316	+ 31	−6.784	14	− 96	+12.198	252	+15.565	230
13.356	0.8666	0.61707	318	−178	6.770	13	−105	11.946	256	15.795	226
14.353	0.8693	0.62025	321	−376	6.757	13	− 92	11.690	260	16.021	221
15.350	0.8720	0.62346	325	−524	6.744	13	− 57	11.430	263	16.242	216
16.348	0.8748	0.62671	328	−579	6.731	13	− 11	11.167	267	16.458	211
17.345	0.8775	0.62999	331	−520	6.718	13	+ 42	10.900	270	16.669	206
18.342	0.8802	+0.63330	334	−349	−6.705	13	+ 84	+10.630	274	+16.875	201
19.339	0.8830	0.63664	337	−103	6.692	12	+107	10.356	277	17.076	196
20.337	0.8857	0.64001	340	+164	6.680	12	+105	10.079	280	17.272	191
21.334	0.8884	0.64341	343	+396	6.668	12	+ 77	9.799	283	17.463	185
22.331	0.8912	0.64684	346	+539	6.656	11	+ 32	9.516	286	17.648	180
23.328	0.8939	+0.65030		+567	−6.645		− 19	+ 9.230		+17.828	

Reduktionsgrößen 1929

für 12ʰ Sternzeit Greenwich

Welt-Zeit	t	A		A'	B		B'	C		D	
1929	″			in 0.00001	″		in 0.001 ″	″		″	
Nov. 23.328	0.8939	+0.65030	348	+567	−6.645	11	− 19	+9.230	290	+17.828	174
24.326	0.8966	0.65378	351	+479	6.634	11	− 67	8.940	292	18.002	169
25.323	0.8994	0.65729	353	+304	6.623	10	− 97	8.648	295	18.171	163
26.320	0.9021	0.66082	356	+ 89	6.613	10	−106	8.353	298	18.334	157
27.318	0.9048	0.66438	359	−116	6.603	9	− 91	8.055	300	18.491	152
28.315	0.9075	0.66797	361	−265	6.594	9	− 59	7.755	302	18.643	146
29.312	0.9103	+0.67158	364	−335	−6.585	8	− 14	+7.453	305	+18.789	141
30.309	0.9130	0.67522	366	−322	6.577	8	+ 29	7.148	307	18.930	135
Dez. 1.307	0.9157	0.67888	368	−238	6.569	8	+ 67	6.841	310	19.065	128
2.304	0.9185	0.68256	370	−105	6.561	7	+ 91	6.531	312	19.193	122
3.301	0.9212	0.68626	373	+ 47	6.554	7	+ 98	6.219	314	19.315	117
4.298	0.9239	0.68999	374	+191	6.547	6	+ 88	5.905	316	19.432	111
5.296	0.9267	+0.69373	376	+300	−6.541	5	+ 63	+5.589	317	+19.543	104
6.293	0.9294	0.69749	378	+356	6.536	5	+ 27	5.272	319	19.647	98
7.290	0.9321	0.70127	379	+340	6.531	4	− 14	4.953	322	19.745	93
8.288	0.9348	0.70506	381	+250	6.527	3	− 55	4.631	323	19.838	86
9.285	0.9376	0.70887	382	+ 92	6.524	3	− 87	4.308	324	19.924	80
10.282	0.9403	0.71269	384	−113	6.521	2	−102	3.984	325	20.004	74
11.279	0.9430	+0.71653	385	−326	−6.519	2	− 98	+3.659	327	+20.078	67
12.277	0.9458	0.72038	386	−504	6.517	1	− 72	3.332	328	20.145	61
13.274	0.9485	0.72424	388	−603	6.516	1	− 29	3.004	328	20.206	55
14.271	0.9512	0.72812	389	−593	6.515	0	+ 21	2.676	329	20.261	49
15.268	0.9540	0.73201	389	−463	6.515	1	+ 69	2.347	331	20.310	42
16.266	0.9567	0.73590	390	−242	6.516	2	+101	2.016	331	20.352	36
17.263	0.9594	+0.73980	390	+ 32	−6.518	2	+109	+1.685	332	+20.388	29
18.260	0.9621	0.74370	391	+295	6.520	3	+ 92	1.353	332	20.417	23
19.257	0.9649	0.74761	392	+489	6.523	4	+ 53	1.021	333	20.440	16
20.255	0.9676	0.75153	392	+576	6.527	4	+ 2	0.688	332	20.456	10
21.252	0.9703	0.75545	392	+541	6.531	5	− 49	0.356	333	20.466	4
22.249	0.9731	0.75937	392	+404	6.536	6	− 87	+0.023	333	20.470	3
23.247	0.9758	+0.76329	391	+200	−6.542	6	−106	−0.310	333	+20.467	9
24.244	0.9785	0.76720	391	− 12	6.548	7	− 98	0.643	333	20.458	16
25.241	0.9813	0.77111	391	−188	6.555	8	− 73	0.976	332	20.442	22
26.238	0.9840	0.77502	391	−293	6.563	9	− 32	1.308	332	20.420	28
27.236	0.9867	0.77893	390	−315	6.572	9	+ 14	1.640	332	20.392	35
28.233	0.9895	0.78283	389	−256	6.581	10	+ 53	1.972	331	20.357	42
29.230	0.9922	+0.78672	389	−140	−6.591	10	+ 83	−2.303	330	+20.315	47
30.227	0.9949	0.79061	388	+ 9	6.601	11	+ 98	2.633	329	20.268	54
31.225	0.9976	0.79449	387	+157	6.612	12	+ 93	2.962	329	20.214	61
32.222	1.0004	+0.79836		+283	−6.624		+ 74	−3.291		+20.153	

Übertragung mittlerer Sternörter

von dem Äquinoktium t_1 auf $t_2 = 1929.0$

t_1	$m^s(t_2-t_1)$	$\log[n^s(t_2-t_1)]$	$\log[n''(t_2-t_1)]$
1755	$+8^m\ 54^s.399$	2.366612	3.542703
1790	7 6.949	2.269045	3.445136
1800	6 36.245	2.236611	3.412702
1810	6 5.540	2.201558	3.377649
1825	5 19.478	2.143031	3.319122
1830	+5 4.123	2.121629	3.297720
1835	4 48.768	2.099117	3.275208
1840	4 33.412	2.075375	3.251466
1845	4 18.055	2.050258	3.226349
1850	4 2.699	2.023603	3.199694
1855	+3 47.342	1.995202	3.171293
1860	3 31.984	1.964814	3.140905
1865	3 16.626	1.932139	3.108230
1870	3 1.267	1.896808	3.072899
1875	2 45.908	1.858345	3.034436
1880	+2 30.548	1.816143	2.992234
1885	2 15.188	1.769394	2.945485
1890	1 59.828	1.717003	2.893094
1895	1 44.467	1.65742	2.83351
1900	1 29.105	1.58833	2.76442
1905	+1 13.744	1.50613	2.68222
1910	0 58.381	1.40466	2.58075
1915	0 43.018	1.27205	2.44814
1920	0 27.655	1.08016	2.25625
1925	+0 12.291	0.72796	1.90405
1930	−0 3.073	0.12590_n	1.30199_n

Sind α_1, δ_1 die Koordinaten für t_1 und α_2, δ_2 jene für $t_2 = 1929.0$, ist ferner α', δ' der genäherte Sternort für die Zeit

$$\frac{1}{2}(t_1 + t_2),$$

so ist

$$\alpha_2 = \alpha_1 + m^s(t_2-t_1) + [n^s(t_2-t_1)] \sin \alpha' \operatorname{tg} \delta'$$
$$\delta_2 = \delta_1 + [n''(t_2-t_1)] \cos \alpha'$$

Reduktionsgrößen 1929

Übertragung mittlerer Polsternörter

von dem Äquinoktium t_1 auf $t_2 = 1929.0$

t_1	$90° - (N)$	$(m) + (N) - 90°$	(n)
1755	+66′ 46″.88	+66′ 49″.28	+58′ 8″.79
1790	53 21.40	53 22.93	46 26.88
1800	49 31.22	49 32.54	43 6.34
1810	45 41.02	45 42.14	39 45.81
1825	39 55.68	39 56.53	34 45.02
1830	+38 0.55	+38 1.33	+33 4.76
1835	36 5.42	36 6.12	31 24.51
1840	34 10.29	34 10.92	29 44.25
1845	32 15.15	32 15.71	28 4.00
1850	30 20.00	30 20.50	26 23.74
1855	+28 24.85	+28 25.28	+24 43.50
1860	26 29.70	26 30.07	23 3.25
1865	24 34.53	24 34.86	21 23.00
1870	22 39.37	22 39.65	19 42.75
1875	20 44.20	20 44.43	18 2.51
1880	+18 49.02	+18 49.21	+16 22.27
1885	16 53.83	16 53.99	14 42.03
1890	14 58.64	14 58.77	13 1.79
1895	13 3.45	13 3.55	11 21.55
1900	11 8.25	11 8.33	9 41.32
1905	+ 9 13.05	+ 9 13.10	+ 8 1.09
1910	7 17.84	7 17.87	6 20.85
1915	5 22.63	5 22.64	4 40.62
1920	3 27.41	3 27.41	3 0.40
1925	+ 1 32.18	+ 1 32.18	+ 1 20.17
1930	− 0 23.05	− 0 23.05	− 0 20.05

Sind α_1, δ_1 die Koordinaten für t_1 und α_2, δ_2 jene für $t_2 = 1929.0$, so hat man

zur Reduktion von dem Äquinoktium t_1 auf t_2:

$$a_1 = \alpha_1 + [90° - (N)]$$

$$p_1 = \left(\operatorname{tang} \delta_1 + \cos a_1 \operatorname{tang} \tfrac{1}{2}(n)\right) \sin (n)$$

$$\operatorname{tang} \Delta a_1 = \frac{p_1 \sin a_1}{1 - p_1 \cos a_1}$$

$$\alpha_2 = a_1 + [(m) + (N) - 90°] + \Delta a_1$$

$$\operatorname{tang} \tfrac{1}{2}(\delta_2 - \delta_1) = \cos (a_1 + \tfrac{1}{2} \Delta a_1) \sec \tfrac{1}{2} \Delta a_1 \operatorname{tang} \tfrac{1}{2}(n)$$

zur Reduktion von dem Äquinoktium t_2 auf t_1:

$$a_2 = \alpha_2 - [(m) + (N) - 90°]$$

$$p_2 = -\left(\operatorname{tang} \delta_2 - \cos a_2 \operatorname{tang} \tfrac{1}{2}(n)\right) \sin (n)$$

$$\operatorname{tang} \Delta a_2 = \frac{p_2 \sin a_2}{1 - p_2 \cos a_2}$$

$$\alpha_1 = a_2 - [90° - (N)] + \Delta a_2$$

$$\operatorname{tang} \tfrac{1}{2}(\delta_1 - \delta_2) = -\cos\left(a_2 + \tfrac{1}{2} \Delta a_2\right) \sec \tfrac{1}{2} \Delta a_2 \operatorname{tang} \tfrac{1}{2}(n)$$

Reduktion scheinbarer Rektaszensions- und Deklinations-Differenzen auf mittlere für den Jahresanfang.

Die Tafeln der Werte p, q, r (in Einheiten der vierten Dezimale) auf Seite 268*—279* sollen zur bequemen Reduktion scheinbarer Rektaszensions- und Deklinationsdifferenzen auf mittlere, für den Jahresanfang geltende, dienen.

Ist $\Delta\alpha^m$ die gemessene scheinbare Rektaszensionsdifferenz in Zeitminuten,
$\Delta\delta'$ » » » Deklinationsdifferenz in Bogenminuten,
beides im Sinne Objekt minus Stern, so sind die an diesen Größen anzubringenden Korrektionen in Zeit- bez. Bogensekunden gegeben durch die Ausdrücke:

Korr. für $\Delta\alpha = p \cdot \Delta\alpha^m \cdot \sec\delta + q \cdot \Delta\delta' \cdot \frac{1}{15}\sec^2\delta$ in Zeitsekunden
Korr. für $\Delta\delta = -q \cdot 15 \cdot \Delta\alpha^m + r \cdot \Delta\delta'$ in Bogensekunden.

Die Werte $\sec\delta$ und $\frac{1}{15}\sec^2\delta$ sind in nachstehender Tafel enthalten.

δ	tg δ	sec δ	$\frac{1}{15}\sec^2\delta$	δ	tg δ	sec δ	$\frac{1}{15}\sec^2\delta$
0°	0.00	1.00	0.07	63°	1.96	2.20	0.32
5	0.09	1.00	0.07	64	2.05	2.28	0.35
10	0.18	1.02	0.07	65	2.14	2.37	0.37
15	0.27	1.04	0.07	66	2.25	2.46	0.40
20	0.36	1.06	0.08	67	2.36	2.56	0.44
25	0.47	1.10	0.08	68	2.48	2.67	0.48
30	0.58	1.15	0.09	69	2.61	2.79	0.52
35	0.70	1.22	0.10	70	2.75	2.92	0.57
40	0.84	1.31	0.11	71	2.90	3.07	0.63
40°	0.84	1.31	0.11	72	3.08	3.24	0.70
42	0.90	1.35	0.12	73	3.27	3.42	0.78
44	0.97	1.39	0.13	74	3.49	3.63	0.88
46	1.04	1.44	0.14	75	3.73	3.86	1.00
48	1.11	1.49	0.15	75.0°	3.73	3.86	1.00
50	1.19	1.56	0.16	75.5	3.87	3.99	1.06
52	1.28	1.62	0.18	76.0	4.01	4.13	1.14
54	1.38	1.70	0.19	76.5	4.17	4.28	1.22
56	1.48	1.79	0.21	77.0	4.33	4.45	1.32
58	1.60	1.89	0.24	77.5	4.51	4.62	1.42
60	1.73	2.00	0.27	78.0	4.70	4.81	1.54
60°	1.73	2.00	0.27	78.5	4.92	5.02	1.68
61	1.80	2.06	0.28	79.0	5.14	5.24	1.83
62	1.88	2.13	0.30	79.5	5.40	5.49	2.01
63	1.96	2.20	0.32	80.0	5.67	5.76	2.21

Reduktionsgrößen 1929

p, 1929 Januar 15

δ / α	−80°	−60°	−40°	−20°	0°	+20°	+40°	+60°	+80°	δ / α
0h	−67	−66	−63	−59	−54	−50	−46	−43	−41	12h
1	−67	−66	−64	−61	−58	−55	−52	−50	−49	13
2	−63	−62	−61	−60	−58	−57	−55	−54	−54	14
3	−54	−54	−54	−54	−54	−54	−54	−54	−54	15
4	−42	−42	−43	−45	−47	−48	−50	−51	−52	16
5	−26	−28	−30	−32	−36	−39	−42	−44	−45	17
6	− 9	−11	−14	−18	−22	−27	−31	−34	−36	18
7	+ 8	+ 6	+ 3	− 2	− 8	−13	−18	−22	−24	19
8	+26	+23	+19	+14	+ 8	+ 1	− 4	− 8	−10	20
9	+41	+39	+34	+29	+22	+16	+10	+ 6	+ 4	21
10	+54	+51	+47	+42	+36	+30	+24	+20	+18	22
11	+62	+60	+57	+52	+46	+41	+36	+32	+30	23
12	+67	+66	+63	+59	+54	+50	+46	+43	+41	24

q, 1929 Januar 15

δ / α	−80°	−60°	−40°	−20°	0°	+20°	+40°	+60°	+80°	δ / α
0h	− 9	− 6	− 1	+ 6	+13	+21	+28	+33	+36	12h
1	+ 9	+10	+11	+14	+16	+19	+21	+23	+24	13
2	+26	+25	+23	+21	+18	+16	+13	+12	+11	14
3	+41	+38	+33	+26	+19	+11	+ 4	− 1	− 3	15
4	+53	+49	+41	+30	+18	+ 6	− 5	−13	−17	16
5	+62	+56	+46	+32	+16	0	−14	−24	−30	17
6	+67	+60	+48	+32	+13	− 5	−22	−34	−40	18
7	+66	+60	+47	+29	+ 9	−11	−28	−41	−48	19
8	+62	+55	+42	+25	+ 5	−15	−33	−46	−53	20
9	+53	+47	+35	+18	0	−19	−35	−47	−54	21
10	+41	+35	+25	+11	− 5	−21	−35	−45	−51	22
11	+26	+21	+13	+ 3	−10	−22	−33	−41	−45	23
12	+ 9	+ 6	+ 1	− 6	−13	−21	−28	−33	−36	24

r, 1929 Januar 15

δ / α	−80°	−60°	−40°	−20°	0°	+20°	+40°	+60°	+80°	
0h	0	−19	−35	−48	−54	−54	−48	−36	−19	12h
1	0	−21	−38	−51	−58	−58	−51	−38	−20	13
2	0	−21	−38	−51	−58	−58	−51	−38	−20	14
3	0	−19	−35	−48	−54	−54	−48	−36	−19	15
4	+ 2	−15	−29	−40	−47	−47	−42	−32	−18	16
5	+ 3	− 9	−21	−30	−36	−37	−34	−26	−16	17
6	+ 6	− 3	−11	−18	−22	−24	−24	−20	−14	18
7	+ 8	+ 5	0	− 4	− 8	−10	−12	−12	−11	19
8	+11	+12	+12	+10	+ 8	+ 4	0	− 5	− 8	20
9	+14	+20	+24	+24	+22	+18	+11	+ 3	− 6	21
10	+16	+26	+34	+37	+36	+30	+21	+ 9	− 3	22
11	+18	+32	+42	+47	+46	+40	+29	+15	− 2	23
12	+19	+36	+48	+54	+54	+48	+35	+19	0	24
	+80°	+60°	+40°	+20°	0°	−20°	−40°	−60°	−80°	α / δ

Bei der Tafel für *r* wird mit der Deklination für $0^h \leq \alpha \leq 12^h$ in die **obere**, für $12^h \leq \alpha \leq 24^h$ in die **untere** Argumentenzeile eingegangen.

Die Einheit der Tafelwerte ist 0.0001. Die Vorzeichen gelten für $0^h \leq \alpha \leq 12^h$; liegt α zwischen 12^h und 24^h, so sind bei allen Tafeln die Vorzeichen umzukehren.

$$\text{Korr. } (\Delta\alpha)^s = p \cdot \Delta\alpha^m \cdot \sec\delta + q \cdot \Delta\delta' \cdot \frac{1}{15} \sec^2\delta; \quad \text{Korr. } (\Delta\delta)'' = -q \cdot 15 \cdot \Delta\alpha^m + r \cdot \Delta\delta'$$

p, 1929 Februar 15

δ / α	−80°	−60°	−40°	−20°	0°	+20°	+40°	+60°	+80°	δ / α
0h	−41	−40	−38	−36	−33	−31	−28	−27	−26	12h
1	−47	−47	−46	−45	−44	−43	−42	−41	−41	13
2	−50	−50	−51	−51	−52	−52	−52	−53	−53	14
3	−50	−51	−52	−54	−56	−58	−59	−61	−61	15
4	−46	−47	−50	−52	−56	−59	−62	−64	−66	16
5	−39	−41	−44	−48	−52	−57	−61	−64	−65	17
6	−30	−32	−35	−40	−45	−51	−55	−59	−61	18
7	−18	−20	−24	−29	−35	−41	−46	−50	−52	19
8	− 5	− 7	−11	−16	−22	−28	−34	−38	−40	20
9	+ 8	+ 6	+ 2	− 3	− 8	−14	−19	−23	−25	21
10	+21	+19	+16	+11	+ 6	+ 1	− 3	− 6	− 8	22
11	+32	+30	+28	+24	+21	+17	+13	+11	+ 9	23
12	+41	+40	+38	+36	+33	+31	+28	+27	+26	24

q, 1929 Februar 15

δ / α	−80°	−60°	−40°	−20°	0°	+20°	+40°	+60°	+80°	δ / α
0h	−29	−23	−13	0	+16	+31	+45	+55	+60	12h
1	−17	−13	− 5	+ 5	+17	+29	+40	+48	+52	13
2	− 5	− 2	+ 3	+10	+17	+25	+32	+37	+40	14
3	+ 8	+ 9	+11	+14	+16	+19	+22	+24	+25	15
4	+21	+20	+19	+17	+14	+12	+10	+ 9	+ 8	16
5	+32	+29	+25	+18	+11	+ 4	− 2	− 6	− 9	17
6	+40	+36	+29	+19	+ 8	− 4	−14	−21	−25	18
7	+46	+41	+32	+18	+ 3	−12	−25	−35	−40	19
8	+49	+43	+32	+16	− 1	−19	−34	−46	−52	20
9	+49	+42	+30	+13	− 6	−25	−42	−54	−61	21
10	+45	+39	+26	+ 9	−10	−29	−46	−58	−65	22
11	+38	+32	+20	+ 5	−13	−31	−47	−58	−65	23
12	+29	+23	+13	0	−16	−31	−45	−55	−60	24

r, 1929 Februar 15

δ / α	−80°	−60°	−40°	−20°	0°	+20°	+40°	+60°	+80°	
0h	+14	0	−13	−25	−33	−38	−38	−34	−25	12h
1	+12	− 5	−21	−35	−44	−48	−46	−39	−27	13
2	+10	− 9	−27	−42	−52	−55	−52	−43	−28	14
3	+10	−11	−30	−46	−56	−59	−55	−45	−29	15
4	+10	−11	−30	−46	−56	−59	−55	−45	−29	16
5	+10	− 9	−28	−42	−52	−56	−53	−43	−28	17
6	+11	− 6	−22	−36	−45	−49	−47	−40	−27	18
7	+13	0	−14	−26	−35	−40	−39	−34	−25	19
8	+15	+ 6	− 5	−14	−22	−28	−30	−28	−23	20
9	+18	+13	+ 6	− 1	− 8	−14	−19	−21	−21	21
10	+20	+20	+18	+13	+ 6	− 1	− 8	−14	−18	22
11	+23	+27	+28	+26	+21	+13	+ 3	− 7	−16	23
12	+25	+34	+38	+38	+33	+25	+13	0	−14	24
	+80°	+60°	+40°	+20°	0°	−20°	−40°	−60°	−80°	α / δ

Bei der Tafel für r wird mit der Deklination für $0^h \leqq \alpha \leqq 12^h$ in die **obere**, für $12^h \leqq \alpha \leqq 24^h$ in die **untere** Argumentenzeile eingegangen.

Die Einheit der Tafelwerte ist 0.0001. Die Vorzeichen gelten für $0^h \leqq \alpha \leqq 12^h$; liegt α zwischen 12^h und 24^h, so sind bei allen Tafeln die Vorzeichen umzukehren.

Korr. $(\Delta\alpha)^s = p \,.\, \Delta\alpha^m \,.\, \sec\delta + q \,.\, \Delta\delta' \,.\, \frac{1}{15} \sec^2\delta$; Korr. $(\Delta\delta)'' = -q \,.\, 15 \,.\, \Delta\alpha^m + r \,.\, \Delta\delta'$

Reduktionsgrößen 1929

p, 1929 März 15

α \ δ	−80°	−60°	−40°	−20°	0°	+20°	+40°	+60°	+80°	δ \ α
0h	−10	−10	− 9	− 8	− 6	− 5	− 4	− 3	− 2	12h
1	−19	−20	−20	−20	−20	−20	−21	−21	−21	13
2	−27	−28	−29	−31	−33	−34	−36	−37	−38	14
3	−34	−35	−37	−40	−43	−46	−49	−51	−52	15
4	−37	−39	−42	−46	−50	−55	−59	−62	−63	16
5	−39	−40	−44	−49	−54	−60	−64	−68	−70	17
6	−37	−39	−43	−48	−54	−60	−65	−69	−71	18
7	−34	−36	−40	−45	−51	−57	−62	−66	−68	19
8	−27	−29	−33	−38	−44	−50	−55	−58	−60	20
9	−19	−21	−24	−29	−34	−39	−44	−47	−49	21
10	−10	−11	−14	−18	−22	−26	−29	−32	−34	22
11	0	− 1	− 3	− 5	− 8	−11	−13	−15	−16	23
12	+10	+10	+ 9	+ 8	+ 6	+ 5	+ 4	+ 3	+ 2	24

q, 1929 März 15

α \ δ	−80°	−60°	−40°	−20°	0°	+20°	+40°	+60°	+80°	δ \ α
0h	−36	−30	−18	− 1	+17	+36	+52	+64	+71	12h
1	−32	−26	−15	0	+18	+35	+50	+62	+68	13
2	−26	−21	−11	+ 2	+17	+32	+45	+55	+60	14
3	−18	−14	− 7	+ 3	+15	+27	+37	+44	+48	15
4	− 9	− 7	− 2	+ 5	+12	+19	+26	+31	+33	16
5	0	+ 1	+ 3	+ 6	+ 8	+11	+13	+15	+16	17
6	+10	+ 9	+ 8	+ 6	+ 4	+ 2	0	− 2	− 2	18
7	+19	+17	+12	+ 6	− 1	− 8	−14	−18	−20	19
8	+27	+23	+16	+ 6	− 5	−16	−26	−34	−37	20
9	+33	+28	+18	+ 5	−10	−24	−37	−47	−52	21
10	+36	+30	+19	+ 4	−13	−30	−45	−56	−62	22
11	+38	+31	+19	+ 3	−16	−34	−51	−63	−69	23
12	+36	+30	+18	+ 1	−17	−36	−52	−64	−71	24

r, 1929 März 15

α \ δ	−80°	−60°	−40°	−20°	0°	+20°	+40°	+60°	+80°	
0h	+22	+17	+10	+ 2	− 6	−14	−20	−24	−24	12h
1	+20	+10	0	−11	−20	−27	−31	−30	−27	13
2	+18	+ 4	−10	−22	−33	−39	−40	−37	−29	14
3	+16	− 1	−18	−32	−43	−48	−48	−42	−31	15
4	+14	− 5	−23	−39	−50	−55	−54	−46	−32	16
5	+14	− 7	−26	−43	−54	−59	−57	−47	−33	17
6	+14	− 7	−26	−43	−54	−59	−57	−48	−33	18
7	+14	− 5	−24	−40	−51	−56	−54	−46	−32	19
8	+16	− 2	−18	−33	−44	−49	−49	−42	−31	20
9	+17	+ 3	−11	−24	−34	−40	−41	−37	−29	21
10	+19	+10	− 1	−12	−22	−28	−32	−31	−27	22
11	+22	+16	+ 9	+ 1	− 8	−16	−21	−24	−25	23
12	+24	+24	+20	+14	+ 6	− 2	−10	−17	−22	24
	+80°	+60°	+40°	+20°	0°	−20°	−40°	−60°	−80°	α \ δ

Bei der Tafel für *r* wird mit der Deklination für $0^h \leq \alpha \leq 12^h$ in die obere, für $12^h \leq \alpha \leq 24^h$ in die untere Argumentenzeile eingegangen.

Die Einheit der Tafelwerte ist 0.0001 Die Vorzeichen gelten für $0^h \leq \alpha \leq 12^h$; liegt α zwischen 12^h und 24^h, so sind bei allen Tafeln die Vorzeichen umzukehren.

Korr. $(\Delta\alpha)^s = p \,.\, \Delta\alpha^m \,.\, \sec\delta + q \,.\, \Delta\delta' \,.\, \frac{1}{15} \sec^2\delta$; Korr. $(\Delta\delta)'' = -q \,.\, 15 \,.\, \Delta\alpha^m + r \,.\, \Delta\delta'$

p, 1929 April 15

α \ δ	−80°	−60°	−40°	−20°	0°	+20°	+40°	+60°	+80°	δ / α
0h	+25	+25	+25	+25	+25	+25	+25	+25	+25	12h
1	+15	+15	+14	+12	+11	+10	+ 8	+ 7	+ 7	13
2	+ 5	+ 4	+ 2	0	− 3	− 6	− 9	−11	−12	14
3	− 6	− 7	−10	−13	−18	−22	−25	−28	−30	15
4	−16	−18	−21	−26	−31	−36	−40	−44	−45	16
5	−25	−27	−31	−36	−42	−47	−52	−56	−58	17
6	−33	−35	−39	−44	−50	−56	−61	−65	−67	18
7	−38	−40	−44	−49	−54	−60	−65	−69	−71	19
8	−41	−42	−46	−50	−55	−60	−65	−68	−70	20
9	−41	−42	−45	−48	−53	−57	−60	−63	−65	21
10	−38	−39	−41	−43	−46	−49	−52	−54	−55	22
11	−32	−33	−34	−35	−37	−38	−40	−40	−41	23
12	−25	−25	−25	−25	−25	−25	−25	−25	−25	24

q, 1929 April 15

α \ δ	−80°	−60°	−40°	−20°	0°	+20°	+40°	+60°	+80°	δ / α
0h	−32	−26	−15	0	+17	+34	+49	+60	+66	12h
1	−37	−30	−18	− 2	+17	+35	+52	+64	+70	13
2	−40	−33	−21	− 4	+15	+34	+51	+63	+70	14
3	−40	−33	−22	− 6	+12	+30	+46	+58	+64	15
4	−37	−32	−21	− 7	+ 9	+24	+38	+49	+54	16
5	−32	−27	−19	− 8	+ 4	+17	+28	+36	+40	17
6	−24	−22	−16	− 8	0	+ 8	+16	+22	+24	18
7	−15	−14	−12	− 8	− 4	− 1	+ 3	+ 5	+ 6	19
8	− 5	− 6	− 7	− 8	− 9	−10	−11	−12	−12	20
9	+ 5	+ 3	− 1	− 6	−12	−18	−24	−27	−30	21
10	+15	+12	+ 5	− 4	−15	−26	−35	−42	−45	22
11	+24	+19	+10	− 2	−17	−31	−43	−53	−58	23
12	+32	+26	+15	0	−17	−34	−49	−60	−66	24

r, 1929 April 15

α \ δ	−80°	−60°	−40°	−20°	0°	+20°	+40°	+60°	+80°	
0h	+26	+31	+33	+31	+25	+16	+ 5	− 6	−17	12h
1	+23	+24	+22	+18	+11	+ 3	− 6	−13	−19	13
2	+21	+17	+11	+ 4	− 3	−11	−16	−20	−22	14
3	+18	+10	0	− 9	−18	−24	−27	−28	−24	15
4	+16	+ 3	−10	−21	−31	−36	−37	−34	−27	16
5	+14	− 2	−18	−32	−42	−46	−46	−39	−28	17
6	+13	− 6	−24	−39	−50	−54	−52	−44	−30	18
7	+12	− 8	−28	−44	−54	−58	−56	−46	−31	19
8	+12	− 9	−28	−45	−55	−59	−56	−46	−31	20
9	+12	− 8	−26	−42	−53	−57	−54	−45	−30	21
10	+13	− 4	−22	−36	−46	−51	−49	−42	−29	22
11	+15	0	−14	−27	−37	−42	−42	−37	−28	23
12	+17	+ 6	− 5	−16	−25	−31	−33	−31	−26	24
	+80°	+60°	+40°	+20°	0°	−20°	−40°	−60°	−80°	α / δ

Bei der Tafel für r wird mit der Deklination für $0^h \leqq \alpha < 12^h$ in die obere, für $12^h \leqq \alpha \leqq 24^h$ in die untere Argumentenzeile eingegangen.

Die Einheit der Tafelwerte ist 0.0001. Die Vorzeichen gelten für $0^h \leqq \alpha \leqq 12^h$, liegt α zwischen 12^h und 24^h, so sind bei allen Tafeln die Vorzeichen umzukehren.

$$\text{Korr.}\,(\Delta\alpha)^s = p\,.\,\Delta\alpha^m\,.\,\sec\delta + q\,.\,\Delta\delta'\,.\,\tfrac{1}{15}\,\sec^2\delta;\quad \text{Korr.}\,(\Delta\delta)'' = -q\,.\,15\,.\,\Delta\alpha^m + r\,.\,\Delta\delta'$$

Reduktionsgrößen 1929

p, 1929 Mai 15

δ / α	−80°	−60°	−40°	−20°	0°	+20°	+40°	+60°	+80°	δ / α
0h	+53	+52	+51	+50	+48	+46	+45	+44	+43	12h
1	+47	+46	+44	+41	+38	+35	+32	+30	+29	13
2	+38	+36	+33	+30	+25	+21	+17	+14	+13	14
3	+26	+24	+21	+16	+11	+ 6	+ 1	− 2	− 4	15
4	+12	+10	+ 7	+ 2	− 4	−10	−15	−18	−20	16
5	− 2	− 4	− 8	−13	−19	−25	−30	−34	−36	17
6	−16	−18	−22	−27	−32	−38	−43	−46	−48	18
7	−29	−31	−34	−38	−44	−49	−53	−56	−58	19
8	−40	−42	−44	−48	−52	−56	−60	−62	−64	20
9	−48	−49	−51	−54	−57	−59	−62	−64	−65	21
10	−54	−54	−55	−56	−58	−59	−60	−61	−61	22
11	−55	−55	−55	−55	−54	−54	−54	−54	−54	23
12	−53	−52	−51	−50	−48	−46	−45	−44	−43	24

q, 1929 Mai 15

δ / α	−80°	−60°	−40°	−20°	0°	+20°	+40°	+60°	+80°	δ / α
0h	−15	−11	− 4	+ 6	+16	+28	+37	+44	+48	12h
1	−28	−23	−13	0	+15	+30	+43	+52	+58	13
2	−39	−33	−21	− 6	+12	+30	+45	+57	+63	14
3	−48	−41	−28	−11	+ 8	+28	+45	+57	+64	15
4	−53	−46	−33	−16	+ 4	+24	+41	+54	+61	16
5	−54	−48	−35	−19	0	+18	+35	+47	+53	17
6	−52	−46	−36	−21	− 5	+11	+26	+36	+42	18
7	−46	−42	−33	−22	− 9	+ 4	+15	+24	+28	19
8	−37	−34	−29	−21	−12	− 4	+ 4	+ 9	+12	20
9	−26	−25	−22	−19	−15	−11	− 8	− 6	− 4	21
10	−13	−13	−14	−15	−17	−18	−19	−20	−21	22
11	+ 1	− 1	− 5	−11	−17	−24	−29	−33	−36	23
12	+15	+11	+ 4	− 6	−17	−28	−37	−44	−48	24

r, 1929 Mai 15

δ / α	−80°	−60°	−40°	−20°	0°	+20°	+40°	+60°	+80°	
0h	+22	+36	+46	+50	+48	+40	+28	+12	− 6	12h
1	+20	+31	+38	+40	+38	+31	+20	+ 7	− 7	13
2	+18	+25	+28	+28	+25	+19	+10	0	− 9	14
3	+16	+18	+17	+15	+11	+ 6	− 1	− 7	−12	15
4	+13	+10	+ 6	+ 1	− 4	− 9	−12	−14	−14	16
5	+10	+ 3	− 5	−13	−19	−22	−23	−22	−17	17
6	+ 8	− 4	−16	−26	−32	−35	−34	−28	−19	18
7	+ 6	−10	−24	−36	−44	−46	−42	−34	−21	19
8	+ 5	−14	−31	−44	−52	−54	−49	−38	−23	20
9	+ 4	−16	−34	−48	−57	−58	−52	−40	−24	21
10	+ 4	−17	−35	−49	−58	−59	−53	−41	−24	22
11	+ 4	−15	−33	−46	−54	−56	−51	−39	−23	23
12	+ 6	−12	−28	−40	−48	−50	−46	−36	−22	24
	+80°	+60°	+40°	+20°	0°	−20°	−40°	−60°	−80°	α / δ

Bei der Tafel für r wird mit der Deklination für $0^h \leqq \alpha \leqq 12^h$ in die obere, für $12^h \leqq \alpha \leqq 24^h$ in die untere Argumentenzeile eingegangen.

Die Einheit der Tafelwerte ist 0.0001. Die Vorzeichen gelten für $0^h \leqq \alpha \leqq 12^h$; liegt α zwischen 12^h und 24^h, so sind bei allen Tafeln die Vorzeichen umzukehren.

Korr. $(\Delta\alpha)^s = p \,.\, \Delta\alpha^m \,.\, \sec\delta + q \,.\, \Delta\delta' \,.\, \frac{1}{15} \sec^2\delta$; Korr. $(\Delta\delta)'' = -q \,.\, 15 \,.\, \Delta\alpha^m + r \,.\, \Delta\delta'$

p, 1929 Juni 15

α \ δ	−80°	−60°	−40°	−20°	0°	+20°	+40°	+60°	+80°	δ / α
0^h	+70	+69	+66	+63	+59	+55	+52	+50	+48	12^h
1	+70	+68	+65	+61	+56	+50	+46	+43	+41	13
2	+65	+63	+59	+54	+48	+42	+37	+33	+31	14
3	+56	+54	+50	+44	+37	+31	+25	+21	+19	15
4	+43	+41	+37	+31	+24	+18	+12	+ 8	+ 5	16
5	+27	+25	+21	+16	+ 9	+ 3	− 2	− 6	− 9	17
6	+10	+ 8	+ 4	− 1	− 6	−12	−16	−20	−22	18
7	− 9	−11	−13	−17	−21	−26	−29	−32	−34	19
8	−27	−28	−30	−32	−35	−38	−40	−42	−43	20
9	−43	−43	−44	−45	−46	−47	−48	−49	−50	21
10	−56	−56	−56	−55	−54	−54	−53	−53	−53	22
11	−65	−65	−63	−61	−59	−56	−54	−53	−52	23
12	−70	−69	−66	−63	−59	−55	−52	−50	−48	24

q, 1929 Juni 15

α \ δ	−80°	−60°	−40°	−20°	0°	+20°	+40°	+60°	+80°	δ / α
0^h	+10	+10	+12	+14	+16	+18	+20	+21	+22	12^h
1	− 9	− 6	− 1	+ 5	+12	+20	+26	+31	+34	13
2	−26	−22	−14	− 4	+ 8	+20	+31	+38	+43	14
3	−42	−37	−26	−12	+ 3	+19	+33	+44	+49	15
4	−55	−49	−37	−20	− 2	+17	+33	+45	+52	16
5	−65	−58	−44	−27	− 7	+13	+31	+41	+51	17
6	−69	−62	−49	−31	−11	+ 9	+27	+40	+47	18
7	−70	−63	−51	−34	−15	+ 4	+21	+33	+40	19
8	−65	−59	−48	−34	−18	− 1	+13	+24	+30	20
9	−56	−52	−43	−32	−19	− 6	+ 5	+13	+18	21
10	−43	−40	−35	−28	−19	−11	− 4	+ 2	+ 4	22
11	−27	−26	−24	−21	−18	−15	−12	−10	− 9	23
12	−10	−10	−12	−14	−16	−18	−20	−21	−22	24

r, 1929 Juni 15

α \ δ	−80°	−60°	−40°	−20°	0°	+20°	+40°	+60°	+80°	
0^h	+13	+32	+47	+56	+59	+55	+44	+27	+ 8	12^h
1	+12	+30	+44	+53	+56	+51	+41	+25	+ 7	13
2	+11	+26	+38	+46	+48	+44	+35	+22	+ 6	14
3	+ 9	+21	+30	+36	+37	+34	+27	+16	+ 4	15
4	+ 7	+14	+20	+24	+24	+22	+17	+10	+ 2	16
5	+ 4	+ 7	+ 9	+10	+ 9	+ 8	+ 5	+ 2	− 1	17
6	+ 2	− 1	− 3	− 5	− 6	− 7	− 6	− 6	− 4	18
7	− 1	− 8	−15	−19	−21	−21	−18	−13	− 6	19
8	− 3	−15	−25	−32	−35	−34	−28	−20	− 9	20
9	− 5	−21	−34	−43	−46	−44	−37	−26	−11	21
10	− 7	−25	−40	−50	−54	−52	−43	−30	−12	22
11	− 8	−27	−43	−54	−59	−56	−47	−32	−13	23
12	− 8	−27	−44	−55	−59	−56	−47	−32	−13	24
	+80°	+60°	+40°	+20°	0°	−20°	−40°	−60°	−80°	α / δ

Bei der Tafel für r wird mit der Deklination für $0^h \leqq \alpha \leqq 12^h$ in die obere, für $12^h \leqq \alpha \leqq 24^h$ in die untere Argumentenzeile eingegangen.

Die Einheit der Tafelwerte ist 0.0001 Die Vorzeichen gelten für $0^h \leqq \alpha \leqq 12^h$; liegt α zwischen 12^h und 24^h, so sind bei allen Tafeln die Vorzeichen umzukehren.

Korr. $(\Delta\alpha)^s = p \,.\, \Delta\alpha^m \,.\, \sec\delta + q \,.\, \Delta\delta' \,.\, \frac{1}{15} \sec^2\delta$; Korr. $(\Delta\delta)'' = -q \,.\, 15 \,.\, \Delta\alpha^m + r \,.\, \Delta\delta'$

Reduktionsgrößen 1929

p, 1929 Juli 15

α \ δ	−80°	−60°	−40°	−20°	0°	+20°	+40°	+60°	+80°	δ / α
0h	+72	+70	+66	+61	+55	+49	+44	+40	+38	12h
1	+80	+77	+72	+66	+59	+51	+45	+40	+38	13
2	+81	+79	+73	+66	+58	+50	+43	+38	+35	14
3	+78	+75	+69	+62	+54	+45	+38	+32	+30	15
4	+68	+66	+60	+53	+45	+37	+30	+25	+22	16
5	+55	+52	+48	+41	+34	+27	+21	+16	+14	17
6	+37	+35	+31	+26	+20	+15	+10	+ 6	+ 4	18
7	+17	+16	+13	+10	+ 6	+ 2	− 2	− 5	− 6	19
8	− 4	− 5	− 6	− 8	−10	−12	−14	−15	−16	20
9	−25	−25	−25	−25	−25	−24	−24	−24	−24	21
10	−44	−44	−42	−40	−38	−35	−33	−32	−31	22
11	−60	−59	−56	−52	−48	−44	−40	−37	−36	23
12	−72	−70	−66	−61	−55	−49	−44	−40	−38	24

q, 1929 Juli 15

α \ δ	−80°	−60°	−40°	−20°	0°	+20°	+40°	+60°	+80°	δ / α
0h	+37	+35	+30	+24	+17	+10	+ 4	− 1	− 3	12h
1	+17	+17	+15	+14	+12	+10	+ 8	+ 7	+ 6	13
2	− 4	− 3	− 1	+ 2	+ 6	+ 9	+12	+14	+16	14
3	−25	−22	−16	− 9	0	+ 8	+15	+21	+24	15
4	−44	−39	−31	−20	− 7	+ 6	+17	+26	+30	16
5	−60	−54	−43	−29	−13	+ 4	+18	+29	+35	17
6	−72	−65	−53	−36	−18	+ 1	+18	+30	+37	18
7	−79	−72	−59	−41	−21	− 1	+16	+29	+36	19
8	−81	−74	−61	−44	−24	− 4	+14	+27	+34	20
9	−77	−71	−59	−43	−24	− 6	+10	+22	+28	21
10	−68	−63	−53	−39	−23	− 8	+ 6	+16	+21	22
11	−54	−50	−43	−33	−21	− 9	+ 1	+ 9	+13	23
12	−37	−35	−30	−24	−17	−10	− 4	+ 1	+ 3	24

r, 1929 Juli 15

α \ δ	−80°	−60°	−40°	−20°	0°	+20°	+40°	+60°	+80°	
0h	+ 1	+20	+37	+49	+55	+55	+48	+35	+18	12h
1	+ 2	+22	+39	+52	+59	+58	+51	+37	+19	13
2	+ 1	+21	+39	+52	+58	+58	+50	+37	+19	14
3	+ 1	+19	+35	+47	+54	+53	+47	+34	+18	15
4	− 1	+15	+29	+40	+45	+46	+40	+30	+17	16
5	− 3	+ 9	+20	+29	+34	+35	+32	+25	+15	17
6	− 5	+ 3	+10	+16	+20	+22	+21	+18	+12	18
7	− 8	− 5	− 2	+ 2	+ 6	+ 8	+10	+10	+10	19
8	−10	−13	−13	−12	−10	− 6	− 2	+ 3	+ 7	20
9	−13	−20	−24	−26	−25	−20	−13	− 5	+ 4	21
10	−15	−26	−34	−38	−38	−32	−23	−11	+ 2	22
11	−17	−32	−42	−48	−48	−42	−31	−16	0	23
12	−18	−35	−48	−55	−55	−49	−37	−20	− 1	24
	+80°	+60°	+40°	+20°	0°	−20°	−40°	−60°	−80°	α / δ

Bei der Tafel für r wird mit der Deklination für $0^h \leq \alpha \leq 12^h$ in die obere, für $12^h \leq \alpha \leq 24^h$ in die untere Argumentenzeile eingegangen.

Die Einheit der Tafelwerte ist 0.0001 Die Vorzeichen gelten für $0^h \leq \alpha \leq 12^h$; liegt α zwischen 12^h und 24^h, so sind bei allen Tafeln die Vorzeichen umzukehren.

Korr. $(\Delta\alpha)^s = p \,.\, \Delta\alpha^m \,.\, \sec\delta + q \,.\, \Delta\delta' \,.\, \frac{1}{15} \sec^2\delta$; Korr. $(\Delta\delta)'' = -q \,.\, 15 \,.\, \Delta\alpha^m + r \,.\, \Delta\delta'$

p, 1929 August 15

δ / α	−80°	−60°	−40°	−20°	0°	+20°	+40°	+60°	+80°	δ / α
0h	+60	+57	+52	+45	+37	+29	+22	+17	+14	12h
1	+74	+70	+64	+56	+47	+38	+29	+23	+20	13
2	+82	+79	+72	+64	+53	+43	+34	+28	+24	14
3	+86	+82	+76	+67	+56	+46	+37	+31	+27	15
4	+83	+80	+74	+65	+56	+46	+38	+31	+28	16
5	+75	+72	+67	+59	+51	+43	+35	+30	+27	17
6	+62	+59	+55	+49	+43	+36	+31	+26	+24	18
7	+44	+42	+40	+36	+32	+28	+24	+21	+20	19
8	+23	+23	+22	+20	+19	+17	+16	+14	+14	20
9	+ 1	+ 2	+ 2	+ 3	+ 4	+ 5	+ 6	+ 7	+ 7	21
10	−21	−20	−17	−14	−11	− 7	− 4	− 1	0	22
11	−42	−40	−36	−31	−25	−19	−13	− 9	− 7	23
12	−60	−57	−52	−45	−37	−29	−22	−17	−14	24

q, 1929 August 15

δ / α	−80°	−60°	−40°	−20°	0°	+20°	+40°	+60°	+80°	δ / α
0h	+61	+56	+46	+34	+19	+ 4	− 9	−18	−23	12h
1	+44	+40	+33	+23	+12	+ 1	− 8	−15	−19	13
2	+23	+21	+17	+11	+ 5	− 2	− 7	−11	−14	14
3	+ 1	+ 1	0	− 2	− 3	− 4	− 6	− 7	− 7	15
4	−21	−20	−17	−14	−11	− 7	− 4	− 1	0	16
5	−42	−39	−33	−26	−17	− 9	− 2	+ 4	+ 7	17
6	−60	−55	−47	−36	−23	−10	+ 1	+ 9	+13	18
7	−73	−68	−57	−43	−27	−11	+ 3	+13	+19	19
8	−82	−76	−64	−48	−30	−11	+ 5	+17	+23	20
9	−85	−79	−66	−49	−30	−10	+ 6	+19	+26	21
10	−83	−76	−64	−47	−28	− 9	+ 8	+20	+27	22
11	−74	−68	−57	−42	−24	− 7	+ 9	+20	+26	23
12	−61	−56	−46	−34	−19	− 4	+ 9	+18	+23	24

r, 1929 August 15

δ / α	−80°	−60°	−40°	−20°	0°	+20°	+40°	+60°	+80°	
0h	−12	+ 2	+16	+28	+37	+41	+40	+35	+25	12h
1	−10	+ 7	+24	+38	+47	+50	+48	+40	+26	13
2	− 9	+11	+29	+44	+53	+57	+53	+43	+28	14
3	− 8	+12	+31	+47	+56	+59	+55	+44	+28	15
4	− 9	+12	+31	+46	+56	+59	+55	+44	+28	16
5	− 9	+ 9	+27	+42	+51	+54	+51	+42	+27	17
6	−11	+ 5	+21	+34	+43	+47	+45	+38	+26	18
7	−13	0	+12	+24	+32	+36	+36	+32	+24	19
8	−15	− 7	+ 2	+11	+19	+24	+26	+26	+22	20
9	−18	−14	− 9	− 2	+ 4	+10	+15	+18	+19	21
10	−20	−21	−20	−16	−11	− 4	+ 4	+11	+16	22
11	−23	−28	−31	−30	−25	−17	− 7	+ 4	+14	23
12	−25	−35	−40	−41	−37	−28	−16	− 2	+12	24
	+80°	+60°	+40°	+20°	0°	−20°	−40°	−60°	−80°	α / δ

Bei der Tafel für r wird mit der Deklination für $0^h \leq \alpha \leq 12^h$ in die obere, für $12^h \leq \alpha \leq 24^h$ in die untere Argumentenzeile eingegangen.

Die Einheit der Tafelwerte ist 0.0001. Die Vorzeichen gelten für $0^h \leq \alpha \leq 12^h$; liegt α zwischen 12^h und 24^h, so sind bei allen Tafeln die Vorzeichen umzukehren.

Korr. $(\Delta\alpha)^s = p \,.\, \Delta\alpha^m \,.\, \sec\delta + q \,.\, \Delta\delta' \,.\, \frac{1}{15} \sec^2\delta$; Korr. $(\Delta\delta)'' = -q \,.\, 15 \,.\, \Delta\alpha^m + r \,.\, \Delta\delta'$

Reduktionsgrößen 1929

p, 1929 September 15

α \ δ	−80°	−60°	−40°	−20°	0°	+20°	+40°	+60°	+80°	δ / α
0h	+36	+32	+26	+18	+ 9	− 1	− 9	−15	−19	12h
1	+54	+50	+43	+33	+22	+11	+ 2	− 5	− 9	13
2	+68	+64	+56	+46	+34	+23	+12	+ 5	+ 1	14
3	+78	+74	+66	+56	+44	+33	+22	+15	+11	15
4	+82	+78	+71	+62	+51	+40	+31	+24	+20	16
5	+81	+78	+72	+64	+54	+45	+37	+31	+28	17
6	+74	+72	+67	+61	+54	+47	+41	+36	+34	18
7	+62	+61	+58	+54	+50	+46	+42	+39	+37	19
8	+46	+46	+45	+44	+42	+41	+40	+39	+38	20
9	+27	+28	+29	+30	+32	+34	+35	+36	+37	21
10	+ 6	+ 8	+11	+15	+19	+24	+28	+31	+33	22
11	−15	−13	− 8	− 2	+ 6	+13	+19	+24	+27	23
12	−36	−32	−26	−18	− 9	+ 1	+ 9	+15	+19	24

q, 1929 September 15

α \ δ	−80°	−60°	−40°	−20°	0°	+20°	+40°	+60°	+80°	δ / α
0h	+74	+67	+55	+39	+21	+ 2	−14	−26	−33	12h
1	+62	+56	+45	+30	+13	− 4	−19	−30	−36	13
2	+46	+41	+31	+19	+ 4	−10	−23	−33	−38	14
3	+27	+23	+16	+ 6	− 5	−16	−26	−33	−36	15
4	+ 6	+ 3	− 1	− 7	−14	−20	−26	−30	−33	16
5	−16	−16	−18	−19	−21	−23	−25	−26	−27	17
6	−36	−35	−33	−30	−28	−25	−22	−20	−19	18
7	−54	−51	−46	−40	−32	−24	−18	−13	−10	19
8	−68	−64	−56	−46	−34	−22	−12	− 4	0	20
9	−78	−72	−63	−49	−34	−19	− 6	+ 4	+10	21
10	−82	−76	−64	−49	−32	−14	+ 1	+13	+19	22
11	−81	−74	−62	−46	−27	− 8	+ 8	+20	+27	23
12	−74	−67	−55	−39	−21	− 2	+14	+26	+33	24

r, 1929 September 15

α \ δ	−80°	−60°	−40°	−20°	0°	+20°	+40°	+60°	+80°	
0h	−22	−16	− 8	0	+ 9	+16	+22	+25	+24	12h
1	−19	− 9	+ 2	+13	+22	+29	+32	+32	+27	13
2	−17	− 3	+11	+24	+34	+40	+41	+38	+29	14
3	−15	+ 2	+19	+34	+44	+50	+49	+42	+31	15
4	−14	+ 5	+24	+40	+51	+56	+54	+46	+32	16
5	−14	+ 7	+27	+43	+54	+59	+57	+48	+32	17
6	−14	+ 7	+26	+43	+54	+59	+56	+47	+32	18
7	−14	+ 5	+23	+39	+50	+55	+53	+45	+32	19
8	−16	+ 1	+18	+32	+42	+48	+48	+41	+30	20
9	−17	− 4	+10	+22	+32	+38	+40	+36	+29	21
10	−20	−10	0	+10	+20	+26	+30	+30	+26	22
11	−22	−18	−11	− 3	+ 6	+13	+19	+23	+24	23
12	−24	−25	−22	−16	− 9	0	+ 8	+16	+22	24
	+80°	+60°	+40°	+20°	0°	−20°	−40°	−60°	−80°	α / δ

Bei der Tafel für r wird mit der Deklination für $0^h \leqq \alpha < 12^h$ in die obere, für $12^h \leqq \alpha \leqq 24^h$ in die untere Argumentenzeile eingegangen.

Die Einheit der Tafelwerte ist 0.0001. Die Vorzeichen gelten für $0^h \leqq \alpha \leqq 12^h$; liegt α zwischen 12^h und 24^h, so sind bei allen Tafeln die Vorzeichen umzukehren.

Korr. $(\Delta\alpha)^s = p \,.\, \Delta\alpha^m \,.\, \sec\delta + q \,.\, \Delta\delta' \,.\, \frac{1}{15} \sec^2\delta$; Korr. $(\Delta\delta)'' = -q \,.\, 15 \,.\, \Delta\alpha^m + r \,.\, \Delta\delta'$

p, 1929 Oktober 15

δ / α	−80°	−60°	−40°	−20°	0°	+20°	+40°	+60°	+80°	δ / α
0^h	+ 9	+ 6	− 1	−10	−22	−33	−42	−49	−52	12^h
1	+28	+23	+15	+ 5	− 8	−20	−30	−38	−43	13
2	+44	+39	+31	+20	+ 7	− 6	−17	−26	−30	14
3	+57	+53	+44	+33	+21	+ 8	− 3	−11	−15	15
4	+66	+62	+55	+45	+33	+22	+12	+ 4	0	16
5	+71	+68	+62	+53	+44	+34	+26	+19	+16	17
6	+71	+69	+64	+58	+51	+44	+38	+33	+31	18
7	+66	+65	+62	+59	+55	+51	+47	+44	+43	19
8	+57	+57	+56	+56	+55	+54	+53	+53	+53	20
9	+44	+45	+46	+49	+51	+54	+56	+58	+59	21
10	+28	+30	+33	+38	+44	+50	+55	+59	+60	22
11	+10	+12	+18	+26	+34	+42	+50	+56	+58	23
12	− 9	− 6	+ 1	+11	+22	+32	+42	+49	+52	24

q, 1929 Oktober 15

δ / α	−80°	−60°	−40°	−20°	0°	+20°	+40°	+60°	+80°	δ / α
0^h	+71	+65	+53	+38	+21	+ 3	−12	−23	−29	12^h
1	+66	+59	+47	+31	+12	− 7	−23	−36	−42	13
2	+56	+50	+38	+21	+ 2	−16	−33	−45	−52	14
3	+43	+37	+25	+10	− 8	−25	−40	−52	−58	15
4	+27	+22	+12	− 2	−17	−32	−45	−55	−60	16
5	+ 9	+ 4	− 3	−13	−25	−36	−47	−54	−58	17
6	−10	−13	−18	−24	−31	−39	−45	−50	−52	18
7	−28	−29	−31	−33	−36	−38	−40	−42	−43	19
8	−44	−43	−42	−40	−37	−35	−33	−31	−31	20
9	−57	−55	−50	−44	−37	−30	−23	−19	−16	21
10	−66	−62	−55	−45	−34	−22	−12	− 5	− 1	22
11	−71	−66	−56	−43	−28	−13	0	+10	+15	23
12	−71	−65	−53	−38	−21	− 3	+12	+23	+29	24

r, 1929 Oktober 15

δ / α	−80°	−60°	−40°	−20°	0°	+20°	+40°	+60°	+80°	
0^h	−26	−30	−31	−28	−22	−13	− 2	+ 8	+18	12^h
1	−23	−23	−20	−15	− 8	0	+ 8	+15	+20	13
2	−21	−16	− 9	− 1	+ 7	+14	+20	+23	+23	14
3	−18	− 9	+ 2	+12	+21	+27	+30	+30	+25	15
4	−16	− 2	+11	+24	+33	+39	+40	+36	+28	16
5	−14	+ 3	+19	+33	+44	+49	+48	+41	+29	17
6	−13	+ 6	+25	+40	+51	+55	+53	+45	+31	18
7	−12	+ 8	+28	+44	+55	+59	+56	+46	+31	19
8	−12	+ 8	+28	+44	+55	+59	+56	+47	+31	20
9	−13	+ 6	+25	+40	+51	+56	+53	+45	+31	21
10	−14	+ 3	+20	+34	+44	+49	+48	+41	+30	22
11	−16	− 2	+12	+24	+34	+40	+40	+36	+28	23
12	−18	− 8	+ 2	+13	+22	+28	+31	+30	+26	24
	+80°	+60°	+40°	+20°	0°	−20°	−40°	−60°	−80°	α / δ

Bei der Tafel für r wird mit der Deklination für $0^h \leqq \alpha \leqq 12^h$ in die obere, für $12^h \leqq \alpha \leqq 24^h$ in die untere Argumentenzeile eingegangen.

Die Einheit der Tafelwerte ist 0.0001. Die Vorzeichen gelten für $0^h \leqq \alpha \leqq 12^h$; liegt α zwischen 12^h und 24^h, so sind bei allen Tafeln die Vorzeichen umzukehren.

$$\text{Korr. } (\Delta\alpha)^s = p \,.\, \Delta\alpha^m \,.\, \sec\delta + q \,.\, \Delta\delta' \,.\, \frac{1}{15} \sec^2\delta; \quad \text{Korr. } (\Delta\delta)'' = -q \,.\, 15 \,.\, \Delta\alpha^m + r \,.\, \Delta\delta'$$

Reduktionsgrößen 1929

p, 1929 November 15

α \ δ	−80°	−60°	−40°	−20°	0°	+20°	+40°	+60°	+80°	δ / α
0^h	−11	−16	−24	−35	−47	−59	−70	−78	−83	12^h
1	+ 3	− 2	−11	−23	−37	−50	−62	−72	−76	13
2	+17	+12	+ 3	−10	−24	−38	−50	−60	−65	14
3	+30	+25	+16	+ 4	−10	−23	−35	−44	−48	15
4	+40	+36	+28	+18	+ 6	− 6	−17	−25	−29	16
5	+48	+45	+38	+30	+20	+10	+ 2	− 4	− 8	17
6	+53	+51	+46	+40	+34	+27	+21	+16	+14	18
7	+54	+53	+51	+48	+44	+41	+38	+36	+35	19
8	+51	+52	+52	+52	+52	+53	+53	+54	+54	20
9	+45	+47	+49	+53	+57	+61	+64	+67	+68	21
10	+36	+39	+44	+50	+57	+65	+71	+76	+79	22
11	+24	+28	+35	+44	+54	+64	+73	+80	+84	23
12	+11	+16	+24	+35	+47	+59	+70	+78	+83	24

q, 1929 November 15

α \ δ	−80°	−60°	−40°	−20°	0°	+20°	+40°	+60°	+80°	δ / α
0^h	+53	+49	+41	+31	+20	+ 8	− 2	− 9	−13	12^h
1	+53	+48	+38	+25	+10	− 6	−19	−29	−34	13
2	+51	+44	+33	+17	− 1	−19	−35	−47	−53	14
3	+44	+38	+25	+ 8	−12	−31	−48	−61	−68	15
4	+35	+28	+15	− 2	−22	−41	−58	−71	−78	16
5	+23	+17	+ 5	−12	−30	−48	−65	−77	−83	17
6	+10	+ 4	− 6	−20	−36	−52	−66	−77	−83	18
7	− 4	− 8	−17	−28	−40	−53	−64	−72	−76	19
8	−18	−21	−26	−33	−41	−50	−57	−62	−65	20
9	−30	−31	−34	−36	−40	−43	−46	−48	−49	21
10	−41	−40	−39	−37	−35	−33	−32	−30	−30	22
11	−48	−46	−41	−35	−28	−22	−15	−11	− 8	23
12	−53	−49	−41	−31	−20	− 8	+ 2	+ 9	+13	24

r, 1929 November 15

α \ δ	−80°	−60°	−40°	−20°	0°	+20°	+40°	+60°	+80°	
0^h	−22	−36	−45	−49	−47	−39	−27	−11	+ 6	12^h
1	−21	−31	−37	−40	−37	−30	−19	− 6	+ 8	13
2	−18	−25	−28	−28	−24	−18	− 9	+ 1	+10	14
3	−16	−17	−17	−14	−10	− 4	+ 2	+ 8	+13	15
4	−13	−10	− 5	0	+ 6	+10	+14	+15	+15	16
5	−11	− 2	+ 6	+14	+20	+24	+25	+23	+18	17
6	− 8	+ 4	+16	+26	+34	+36	+35	+29	+20	18
7	− 7	+10	+25	+37	+44	+47	+43	+35	+22	19
8	− 5	+14	+31	+44	+52	+54	+50	+39	+23	20
9	− 4	+16	+34	+48	+57	+58	+53	+41	+24	21
10	− 4	+16	+35	+49	+57	+59	+53	+41	+24	22
11	− 5	+14	+32	+46	+54	+56	+51	+40	+24	23
12	− 6	+11	+27	+39	+47	+49	+45	+36	+22	24
	+80°	+60°	+40°	+20°	0°	−20°	−40°	−60°	−80°	α / δ

Bei der Tafel für *r* wird mit der Deklination für $0^h \leqq \alpha \leqq 12^h$ in die obere, für $12^h \leqq \alpha \leqq 24^h$ in die untere Argumentenzeile eingegangen.

Die Einheit der Tafelwerte ist 0.0001. Die Vorzeichen gelten für $0^h \leqq \alpha \leqq 12^h$; liegt α zwischen 12^h und 24^h, so sind bei allen Tafeln die Vorzeichen umzukehren.

Korr. $(\Delta\alpha)^s = p \,.\, \Delta\alpha^m \,.\, \sec\delta + q \,.\, \Delta\delta' \,.\, \frac{1}{15} \sec^2\delta$; Korr. $(\Delta\delta)'' = -q \,.\, 15 \,.\, \Delta\alpha^m + r \,.\, \Delta\delta'$

p, 1929 Dezember 15

α \ δ	−80°	−60°	−40°	−20°	0°	+20°	+40°	+60°	+80°	δ / α
0h	−17	−22	−32	−44	−59	−74	−86	−96	−101	12h
1	−10	−15	−26	−40	−55	−71	−85	−95	−100	13
2	− 2	− 8	−18	−32	−48	−63	−77	−88	− 93	14
3	+ 6	+ 1	− 9	−22	−37	−52	−65	−75	− 80	15
4	+14	+ 9	+ 1	−10	−23	−36	−48	−56	− 60	16
5	+20	+17	+10	+ 2	− 8	−18	−27	−34	− 37	17
6	+26	+24	+19	+14	+ 7	+ 1	− 5	− 9	− 12	18
7	+29	+28	+27	+25	+22	+20	+17	+16	+ 15	19
8	+31	+32	+32	+34	+36	+37	+39	+40	+ 40	20
9	+30	+32	+36	+41	+47	+52	+58	+61	+ 63	21
10	+28	+31	+37	+45	+55	+64	+72	+78	+ 82	22
11	+23	+28	+36	+46	+59	+71	+82	+90	+ 95	23
12	+17	+22	+32	+44	+59	+74	+86	+96	+101	24

q, 1929 Dezember 15

α \ δ	−80°	−60°	−40°	−20°	0°	+20°	+40°	+60°	+80°	δ / α
0h	+26	+25	+24	+21	+19	+16	+14	+13	+ 12	12h
1	+29	+26	+22	+15	+ 7	0	− 7	−12	− 14	13
2	+30	+26	+18	+ 7	− 5	−17	−28	−36	− 40	14
3	+29	+24	+13	− 1	−17	−33	−47	−57	− 63	15
4	+26	+20	+ 8	− 9	−27	−46	−63	−75	− 81	16
5	+22	+15	+ 2	−16	−36	−56	−74	−87	− 94	17
6	+16	+ 9	− 5	−22	−43	−63	−81	−94	−101	18
7	+ 8	+ 2	−10	−27	−46	−65	−82	−94	−100	19
8	+ 1	− 5	−16	−30	−46	−63	−77	−88	− 93	20
9	− 8	−12	−20	−31	−44	−56	−68	−76	− 80	21
10	−15	−17	−23	−30	−38	−46	−53	−58	− 61	22
11	−21	−22	−24	−26	−29	−32	−35	−37	− 38	23
12	−26	−25	−24	−21	−19	−16	−14	−13	− 12	24

r, 1929 Dezember 15

α \ δ	−80°	−60°	−40°	−20°	0°	+20°	+40°	+60°	+80°	
0h	−13	−32	−47	−57	−59	−55	−43	−27	− 7	12h
1	−13	−30	−44	−53	−55	−51	−40	−25	− 7	13
2	−11	−26	−38	−46	−48	−44	−34	−21	− 5	14
3	− 9	−21	−30	−36	−37	−34	−26	−16	− 3	15
4	− 7	−14	−20	−23	−23	−21	−16	− 9	− 1	16
5	− 4	− 7	− 8	− 9	− 8	− 7	− 4	− 2	+ 2	17
6	− 2	+ 1	+ 3	+ 6	+ 7	+ 8	+ 7	+ 6	+ 4	18
7	+ 1	+ 8	+15	+20	+22	+22	+19	+14	+ 7	19
8	+ 3	+15	+25	+33	+36	+35	+29	+21	+ 9	20
9	+ 5	+21	+34	+43	+47	+45	+38	+26	+11	21
10	+ 6	+25	+40	+50	+55	+52	+44	+30	+12	22
11	+ 7	+27	+43	+54	+59	+56	+47	+32	+13	23
12	+ 7	+27	+43	+55	+59	+57	+47	+32	+13	24
	+80°	+60°	+40°	+20°	0°	−20°	−40°	−60°	−80°	α / δ

Bei der Tafel für r wird mit der Deklination für $0^h \leqq \alpha \leqq 12^h$ in die obere, für $12^h \leqq \alpha \leqq 24^h$ in die untere Argumentenzeile eingegangen.

Die Einheit der Tafelwerte ist 0.0001. Die Vorzeichen gelten für $0^h \leqq \alpha \leqq 12^h$; liegt α zwischen 12^h und 24^h, so sind bei allen Tafeln die Vorzeichen umzukehren.

Korr. $(\Delta\alpha)^s = p \,.\, \Delta\alpha^m \,.\, \sec\delta + q \,.\, \Delta\delta' \,.\, \frac{1}{15} \sec^2\delta$; Korr. $(\Delta\delta)'' = -q \,.\, 15 \,.\, \Delta\alpha^m + r \,.\, \Delta\delta'$

Reduktionsgrößen 1929

Übertragung von Rektaszensions- und Deklinationsdifferenzen vom mittleren Äquinoktium 1929.0 auf das Normaläquinoktium 1925.0

α	a_1	a_2	d_1	α	α	a_1	a_2	d_1	α
h m	s	s	"	h m	h m	s	s	"	h m
0 0	−0.0233−	−0.0000+	+0.000−	24 0	6 0	+0.0000+	−0.0233+	+0.350−	18 0
10	233	10	15	50	10	10	233	349	50
20	232	20	31	40	20	20	232	348	40
30	231	30	46	30	30	30	231	347	30
40	230	40	61	20	40	40	230	345	20
50	228	50	76	10	50	50	228	342	10
1 0	−0.0225−	−0.0060+	+0.091−	23 0	7 0	+0.0060+	−0.0225+	+0.338−	17 0
10	222	070	105	50	10	070	222	334	50
20	219	080	120	40	20	080	219	329	40
30	215	089	134	30	30	089	215	323	30
40	211	099	148	20	40	099	211	317	20
50	207	108	162	10	50	108	207	310	10
2 0	−0.0202−	−0.0117+	+0.175−	22 0	8 0	+0.0117+	−0.0202+	+0.303−	16 0
10	197	125	188	50	10	125	197	295	50
20	191	134	201	40	20	134	191	287	40
30	185	142	213	30	30	142	185	278	30
40	179	150	225	20	40	150	179	268	20
50	172	158	236	10	50	158	172	258	10
3 0	−0.0165−	−0.0165+	+0.247−	21 0	9 0	+0.0165+	−0.0165+	+0.247−	15 0
10	158	172	258	50	10	172	158	236	50
20	150	179	268	40	20	179	150	225	40
30	142	185	278	30	30	185	142	213	30
40	134	191	287	20	40	191	134	201	20
50	125	197	295	10	50	197	125	188	10
4 0	−0.0117−	−0.0202+	+0.303−	20 0	10 0	+0.0202+	−0.0117+	+0.175−	14 0
10	108	207	310	50	10	207	108	162	50
20	099	211	317	40	20	211	099	148	40
30	089	215	323	30	30	215	089	134	30
40	080	219	329	20	40	219	080	120	20
50	070	222	334	10	50	222	070	105	10
5 0	−0.0060−	−0.0225+	+0.338−	19 0	11 0	+0.0225+	−0.0060+	+0.091−	13 0
10	50	228	342	50	10	228	50	76	50
20	40	230	345	40	20	230	40	61	40
30	30	231	347	30	30	231	30	46	30
40	20	232	348	20	40	232	20	31	20
50	10	233	349	10	50	233	10	15	10
6 0	−0.0000−	−0.0233+	+0.350−	18 0	12 0	+0.0233+	−0.0000+	+0.000−	12 0

Für α zwischen 12^h und 24^h gelten die Vorzeichen zur Rechten.

$\Delta p_\alpha^s = a_1 \cdot \mathrm{tg}\,\delta \cdot \Delta\alpha^m + a_2 \cdot \frac{1}{15} \sec^2\delta \cdot \Delta\delta'$; $\quad \Delta p_\delta'' = d_1 \cdot \Delta\alpha^m$

$\Delta\alpha^m$ bedeutet die Rektaszensionsdifferenz in Zeitminuten, $\Delta\delta'$ ist die Deklinationsdifferenz in Bogenminuten.

Die Werte von $\mathrm{tg}\,\delta$ und $\frac{1}{15}\sec^2\delta$ sind auf S. 267* enthalten.

Reduktion von dem mittleren Äquinoktium 1925.0 auf das jedesmalige wahre Äquinoktium

0h Welt-Zeit	f	log g	G	0h Welt-Zeit	f	log g	G
1929	s		h m s	1929	s		h m s
Jan. 1	+11.435	1.87354	23 46 37	Mai 17	+12.564	1.91468	23 44 20
5	11.481	1.87531	23 46 29	21	12.604	1.91605	23 44 30
9	11.527	1.87705	23 46 20	25	12.646	1.91745	23 44 38
13	11.572	1.87875	23 46 8	29	12.688	1.91889	23 44 46
17	11.616	1.88040	23 45 55	Juni 2	12.731	1.92035	23 44 53
21	+11.658	1.88201	23 45 41	6	+12.776	1.92184	23 44 59
25	11.699	1.88356	23 45 26	10	12.821	1.92334	23 45 3
29	11.738	1.88505	23 45 11	14	12.866	1.92487	23 45 5
Febr. 2	11.776	1.88648	23 44 55	18	12.911	1.92640	23 45 6
6	11.812	1.88785	23 44 39	22	12.957	1.92795	23 45 6
10	+11.847	1.88916	23 44 23	26	+13.003	1.92949	23 45 4
14	11.880	1.89042	23 44 7	30	13.048	1.93102	23 45 1
18	11.912	1.89161	23 43 52	Juli 4	13.093	1.93254	23 44 56
22	11.943	1.89275	23 43 38	8	13.138	1.93403	23 44 50
26	11.972	1.89384	23 43 25	12	13.182	1.93549	23 44 43
März 2	+12.000	1.89489	23 43 14	16	+13.225	1.93692	23 44 34
6	12.027	1.89589	23 43 4	20	13.267	1.93831	23 44 24
10	12.053	1.89686	23 42 56	24	13.309	1.93968	23 44 14
14	12.079	1.89780	23 42 49	28	13.349	1.94101	23 44 3
18	12.104	1.89873	23 42 44	Aug. 1	13.388	1.94230	23 43 51
22	+12.130	1.89963	23 42 41	5	+13.425	1.94354	23 43 39
26	12.155	1.90054	23 42 40	9	13.461	1.94474	23 43 27
30	12.181	1.90145	23 42 41	13	13.496	1.94589	23 43 14
April 3	12.207	1.90237	23 42 44	17	13.530	1.94700	23 43 2
7	12.234	1.90332	23 42 48	21	13.562	1.94807	23 42 50
11	+12.262	1.90429	23 42 54	25	+13.593	1.94909	23 42 39
15	12.290	1.90529	23 43 1	29	13.623	1.95006	23 42 29
19	12.320	1.90631	23 43 9	Sept. 2	13.652	1.95100	23 42 20
23	12.351	1.90737	23 43 18	6	13.680	1.95191	23 42 11
27	12.383	1.90847	23 43 28	10	13.707	1.95279	23 42 4
Mai 1	+12.416	1.90963	23 43 38	14	+13.734	1.95365	23 41 59
5	12.451	1.91083	23 43 49	18	13.760	1.95449	23 41 54
9	12.487	1.91207	23 44 0	22	13.786	1.95531	23 41 51
13	12.525	1.91336	23 44 10	26	13.811	1.95613	23 41 50
17	+12.564	1.91468	23 44 20	30	+13.837	1.95694	23 41 51

Reduktionsgrößen 1929

Reduktion von dem mittleren Äquinoktium 1925.0 auf das jedesmalige wahre Äquinoktium

0h Welt-Zeit	f	log g	G	0h Welt-Zeit	f	log g	G
1929				1929			
Sept. 30	+13.837 s	1.95694	23h 41m 51s	Nov. 17	+14.222 s	1.96862	23h 43m 26s
Okt. 4	13.864	1.95776	23 41 53	21	14.263	1.96985	23 43 36
8	13.891	1.95859	23 41 56	25	14.306	1.97112	23 43 45
12	13.918	1.95943	23 42 1	29	14.350	1.97243	23 43 54
16	13.946	1.96030	23 42 7	Dez. 3	14.395	1.97377	23 44 2
20	+13.976	1.96120	23 42 14	7	+14.441	1.97515	23 44 8
24	14.007	1.96213	23 42 23	11	14.488	1.97655	23 44 13
28	14.039	1.96310	23 42 33	15	14.536	1.97797	23 44 17
Nov. 1	14.072	1.96412	23 42 43	19	14.584	1.97940	23 44 19
5	14.107	1.96518	23 42 53	23	14.632	1.98084	23 44 19
9	+14.144	1.96628	23 43 4	27	+14.680	1.98227	23 44 19
13	14.182	1.96743	23 43 15	31	+14.728	1.98369	23 44 16
17	+14.222	1.96862	23 43 26				

Red. in $\alpha = f + {}^1/_{15}\, g \sin(G + \alpha) \operatorname{tg} \delta$

Red. in $\delta = \qquad g \cos(G + \alpha)$

Korrektion der Reduktion vom mittleren Äquinoktium 1925.0 auf das jedesmalige wahre Äquinoktium (s. S. 281*—282*), berechnet für 1929.5, mit Hinzufügung ihrer einjährigen Änderung

Für Rektaszension (in 0ˢ.001)

α	δ +60°		+50°		+30°		+10°		−10°		−30°		−50°		−60°	
0ʰ	+5	+2	+4	+2	+2	+1	+1	0	0	0	−2	−1	−3	−2	−5	−2
1	+7	+3	+5	+2	+2	+1	+1	0	0	0	−1	0	−2	−1	−3	−1
2	+9	+4	+5	+2	+3	+1	+1	+1	0	0	0	0	−1	0	0	0
3	+8	+4	+5	+2	+2	+1	+1	+1	+1	0	0	0	0	0	+1	+1
4	+7	+3	+4	+2	+2	+1	+1	0	+1	0	0	0	+1	0	+2	+1
5	+4	+2	+2	+1	+1	+1	+1	0	0	0	0	0	+1	0	+1	+1
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	−4	−2	−2	−1	−1	0	0	0	0	0	0	0	0	0	−1	0
8	−6	−3	−4	−2	−2	−1	−1	0	0	0	0	0	0	0	−1	0
9	−8	−4	−5	−2	−2	−1	−1	0	0	0	0	0	0	0	−1	0
10	−8	−4	−5	−2	−2	−1	−1	0	0	0	+1	0	+1	+1	+1	0
11	−7	−3	−5	−2	−2	−1	−1	0	0	0	+1	+1	+2	+1	+3	+1
12	−5	−2	−3	−2	−2	−1	0	0	+1	0	+2	+1	+4	+2	+5	+2
13	−3	−1	−2	−1	−1	0	0	0	+1	0	+2	+1	+5	+2	+7	+3
14	0	0	−1	0	0	0	0	0	+1	+1	+3	+1	+5	+2	+9	+4
15	+1	+1	0	0	0	0	+1	0	+1	+1	+2	+1	+5	+2	+8	+4
16	+2	+1	+1	0	0	0	+1	0	+1	0	+2	+1	+4	+2	+7	+3
17	+1	+1	+1	0	0	0	0	0	+1	0	+1	+1	+2	+1	+4	+2
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	−1	0	0	0	0	0	0	0	0	0	−1	0	−2	−1	−4	−2
20	−1	0	0	0	0	0	0	0	0	0	−2	−1	−4	−2	−6	−3
21	−1	0	0	0	0	0	0	0	−1	0	−2	−1	−5	−2	−8	−4
22	+1	0	+1	+1	+1	0	0	0	−1	0	−2	−1	−5	−2	−8	−4
23	+3	+1	+2	+1	+1	+1	0	0	−1	0	−2	−1	−5	−2	−7	−3
24	+5	+2	+4	+2	+2	+1	+1	0	−1	0	−2	−1	−3	−2	−5	−2

Für Deklination (in 0″.01)

α	δ +60°		+50°		+30°		+10°		−10°		−30°		−50°		−60°	
0ʰ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1	−1	−1	−1	−1	−1	−1	−1	−1	−1	−1	−1	−1	−1	0	−1	−1
2	−3	−2	−3	−1	−3	−1	−2	−1	−2	−1	−2	−1	−2	−1	−1	−1
3	−5	−2	−4	−2	−4	−2	−3	−2	−3	−1	−3	−1	−2	−1	−2	−1
4	−6	−3	−6	−3	−5	−2	−4	−2	−4	−2	−3	−1	−2	−1	−1	−1
5	−8	−3	−7	−3	−5	−2	−5	−2	−4	−2	−3	−1	−2	−1	−1	−1
6	−8	−4	−7	−3	−6	−3	−5	−2	−4	−2	−3	−2	−2	−1	−1	0
7	−7	−3	−6	−3	−5	−2	−5	−2	−4	−2	−3	−1	−2	−1	−1	−1
8	−6	−3	−6	−3	−5	−2	−4	−2	−4	−2	−3	−1	−2	−1	−1	−1
9	−5	−2	−4	−2	−4	−2	−3	−1	−3	−1	−3	−1	−2	−1	−1	−1
10	−3	−1	−3	−1	−2	−1	−2	−1	−2	−1	−2	−1	−2	−1	−1	−1
11	−1	−1	−1	−1	−1	−1	−1	0	−1	0	−1	0	−1	0	−1	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	+1	0	+1	0	+1	+1	+1	+1	+1	+1	+1	+1	+1	+1	+1	+1
14	+1	+1	+2	+1	+2	+1	+2	+1	+2	+1	+3	+1	+3	+1	+3	+1
15	+2	+1	+2	+1	+3	+1	+3	+1	+3	+2	+4	+2	+4	+2	+5	+2
16	+1	+1	+2	+1	+3	+1	+4	+2	+4	+2	+5	+2	+6	+3	+6	+3
17	+1	+1	+2	+1	+3	+1	+4	+2	+5	+2	+5	+2	+7	+3	+8	+3
18	+1	0	+2	+1	+3	+2	+4	+2	+5	+2	+6	+3	+7	+3	+8	+4
19	+1	+1	+2	+1	+3	+1	+4	+2	+5	+2	+5	+2	+6	+3	+7	+3
20	+1	+1	+2	+1	+3	+1	+4	+2	+4	+2	+5	+2	+6	+3	+6	+3
21	+1	+1	+2	+1	+3	+1	+3	+1	+3	+1	+4	+2	+4	+2	+5	+2
22	+1	+1	+2	+1	+2	+1	+2	+1	+2	+1	+2	+1	+3	+1	+3	+1
23	+1	0	+1	0	+1	0	+1	0	+1	0	+1	+1	+1	+1	+1	+1
24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

α	0^h, 12^h		1^h, 13^h		2^h, 14^h		3^h, 15^h		4^h, 16^h		5^h, 17^h		α
	$-A_1+$	$-D+$	$-A_1+$	$-D+$	$-A_1+$	$-D+$	$-A_1+$	$-D+$	$-A_1+$	$-D+$	$-A_1+$	$-D+$	
m	s	"	s	"	s	"	s	"	s	"	s	"	m
0		80.18	1.381	77.45	2.670	69.45	3.778	56.72	4.628	40.12	5.162	20.79	0
1	0.022	80.18	403	77.36	691	69.28	794	56.47	640	39.82	168	20.45	1
2	045	80.18	426	77.27	711	69.10	810	56 22	651	39.52	174	20.11	2
3	068	80.17	448	77.17	731	68.92	827	55.97	662	39.21	180	19.77	3
4	091	80.17	471	77.08	751	68.74	843	55.72	674	38.91	185	19.43	4
5	114	80.16	493	76.98	771	68.56	859	55.47	685	38.60	191	19.09	5
6	138	80.15	516	76.88	791	68.38	875	55.22	696	38.29	197	18.75	6
7	161	80.14	538	76.78	811	68.19	891	54.96	707	37.98	202	18.41	7
8	184	80.13	560	76.68	831	68.01	907	54.71	718	37.67	208	18.07	8
9	208	80.12	583	76.58	851	67.83	923	54.45	729	37.36	213	17.73	9
10	0.231	80.10	1.605	76.48	2.870	67.64	3.939	54.19	4.740	37.05	5.218	17.39	10
11	255	80.09	627	76.37	890	67.45	955	53.93	751	36.74	223	17.05	11
12	278	80.07	650	76.26	910	67.26	970	53.67	761	36.43	228	16.71	12
13	301	80.05	672	76.15	929	67.07	3.986	53.41	772	36.12	233	16.37	13
14	324	80.03	694	76.04	949	66.88	4.002	53.15	783	35.81	237	16.03	14
15	347	80.01	716	75.93	968	66.68	017	52.89	793	35.49	242	15.68	15
16	371	79.99	738	75.82	2.987	66.49	032	52.63	803	35.18	246	15.34	16
17	394	79.96	760	75.70	3.007	66.29	048	52.36	813	34.87	251	15.00	17
18	417	79.94	782	75.59	026	66.10	063	52.10	823	34.55	255	14.65	18
19	440	79.91	804	75.47	045	65.90	078	51.83	833	34.24	259	14.31	19
20	0.463	79.88	1.826	75.35	3.064	65.70	4.093	51.56	4.843	33.92	5.263	13.96	20
21	487	79.85	848	75.23	083	65.50	108	51.29	853	33.60	267	13.62	21
22	510	79.81	870	75.11	102	65.30	123	51.02	862	33.28	271	13.27	22
23	533	79.78	892	74.99	121	65.09	138	50.75	872	32.96	275	12.93	23
24	556	79.74	914	74.87	140	64.89	153	50.48	881	32.64	278	12.58	24
25	579	79.70	935	74.74	159	64.68	167	50.21	891	32.32	282	12.23	25
26	603	79.66	957	74.61	178	64.47	182	49.94	900	32.00	285	11.89	26
27	626	79.62	1.979	74.48	196	64.26	196	49.67	910	31.68	289	11.54	27
28	649	79.58	2.000	74.35	215	64.05	210	49.39	919	31.36	292	11.20	28
29	672	79.54	022	74.22	234	63.84	225	49.12	928	31.04	296	10.85	29
30	0.695	79.50	2.043	74.09	3.252	63.63	4.239	48.84	4.937	30.71	5.299	10.50	30
31	719	79.45	065	73.96	270	63.42	253	48.56	946	30.39	302	10.16	31
32	742	79.40	086	73.82	289	63.20	267	48.28	955	30.07	305	9.81	32
33	765	79.35	107	73.68	307	62.99	281	48.00	964	29.74	308	9.46	33
34	788	79.30	129	73.54	326	62.77	295	47.72	973	29.42	311	9.11	34
35	811	79.25	150	73.40	344	62.55	309	47.44	981	29.09	313	8.76	35
36	834	79.19	172	73.26	362	62.33	323	47.16	990	28.77	315	8.42	36
37	857	79.14	193	73.11	380	62.11	336	46.87	4.998	28.44	318	8.07	37
38	880	79.08	214	72.97	398	61.89	350	46.59	5.006	28.12	320	7.72	38
39	903	79.02	236	72.83	416	61 67	364	46.30	014	27.79	322	7.37	39
40	0.926	78.96	2.257	72.68	3.434	61.44	4.377	46.01	5.022	27.46	5.324	7.02	40
41	949	78.90	278	72.53	452	61.22	390	45.73	030	27.13	326	6.68	41
42	972	78.84	299	72.38	469	60.99	404	45.44	038	26.80	328	6.33	42
43	0.995	78.77	320	72.23	487	60.76	417	45.15	045	26.47	330	5.98	43
44	1.018	78.71	341	72.08	505	60.53	430	44.86	053	26.14	332	5.63	44
45	041	78.64	362	71.92	522	60.30	443	44.57	061	25.81	333	5.28	45
46	064	78.57	383	71.77	540	60.07	456	44.28	068	25.48	335	4.93	46
47	087	78.50	404	71.61	557	59.84	469	43.99	076	25.15	336	4.58	47
48	110	78.43	425	71.45	574	59.61	482	43.70	083	24.81	338	4.23	48
49	133	78.36	446	71.29	592	59.38	494	43.41	090	24.48	339	3.88	49
50	1.155	78.28	2.466	71.13	3.609	59.14	4.507	43.11	5.097	24.14	5.340	3.53	50
51	178	78.21	487	70.97	626	58.90	519	42.82	104	23.81	341	3.19	51
52	201	78.13	508	70.80	643	58.66	532	42.52	111	23.48	342	2.84	52
53	223	78.05	528	70.64	660	58.42	544	42.22	118	23.14	343	2.49	53
54	246	77.97	549	70.48	677	58.18	556	41.92	125	22.81	344	2.14	54
55	268	77.89	569	70.31	694	57.94	568	41.62	131	22.47	344	1.79	55
56	291	77.81	589	70.14	711	57.70	580	41.32	138	22.14	345	1.44	56
57	313	77.72	610	69.97	728	57.46	592	41.02	144	21.80	345	1.09	57
58	336	77.63	630	69.80	745	57.21	604	40.72	150	21.47	345	0.74	58
59	358	77.54	2.650	69.63	762	56.97	616	40.42	156	21.13	345	0.39	59
60	1.381	77.45	2.670	69.45	3.778	56.72	4.628	40.12	5.162	20.79	5.345	0.04	60

α	6h, 18h		7h, 19h		8h, 20h		9h, 21h		10h, 22h		11h, 23h		α
	−A1+	+D−	−A1+	+D−	−A1+	+D−	−A1+	+D−	−A1+	+D−	−A1+	+D−	
m	s	"	s	"	s	"	s	"	s	"	s	"	m
0	5.345		5.164	20.72	4.630	40.06	3.781	56.67	2.675	69.42	1.386	77.44	0
1	345	0.31	158	21.06	619	40.36	765	56.92	655	69.60	364	77.53	1
2	345	0.66	152	21.40	607	40.66	748	57.16	634	69.77	341	77.62	2
3	345	1.01	145	21.73	595	40.96	732	57.41	614	69.94	319	77.70	3
4	344	1.36	139	22.07	583	41.26	715	57.65	594	70.11	296	77.79	4
5	344	1.71	132	22.40	571	41.56	698	57.89	573	70.28	273	77.87	5
6	343	2.06	126	22.74	559	41.86	681	58.13	553	70.45	251	77.95	6
7	343	2.41	119	23.08	546	42.16	664	58.37	532	70.61	228	78.03	7
8	342	2.76	112	23.41	534	42.46	647	58.61	512	70.78	205	78.11	8
9	341	3.11	105	23.75	522	42.76	630	58.85	491	70.94	182	78.19	9
10	5.340	3.46	5.098	24.08	4.509	43.05	3.613	59.09	2.470	71.10	1.159	78.27	10
11	339	3.81	091	24.42	497	43.35	596	59.33	450	71.26	137	78.35	11
12	338	4.16	084	24.75	484	43.64	578	59.56	429	71.42	114	78.42	12
13	337	4.51	077	25.08	472	43.93	561	59.80	408	71.58	091	78.49	13
14	336	4.86	070	25.41	459	44.22	544	60.03	387	71.74	068	78.56	14
15	334	5.21	062	25.74	446	44.51	526	60.26	366	71.89	045	78.63	15
16	333	5.56	055	26.07	433	44.80	509	60.49	345	72.05	023	78.70	16
17	331	5.91	047	26.40	420	45.09	491	60.72	324	72.20	1.000	78.76	17
18	329	6.26	040	26.73	407	45.38	474	60.95	303	72.35	0.977	78.83	18
19	327	6.61	032	27.06	394	45.67	456	61.18	282	72.50	954	78.89	19
20	5.325	6.95	5.024	27.39	4.380	45.96	3.438	61.40	2.261	72.65	0.931	78.95	20
21	323	7.30	016	27.72	367	46.25	420	61.63	240	72.80	908	79.01	21
22	321	7.65	008	28.05	353	46.53	402	61.85	219	72.94	885	79.07	22
23	319	8.00	5.000	28.38	340	46.82	384	62.07	198	73.09	862	79.13	23
24	317	8.35	4.992	28.71	326	47.10	366	62.29	177	73.23	839	79.19	24
25	314	8.69	983	29.03	312	47.38	348	62.51	155	73.37	816	79.24	25
26	312	9.04	975	29.36	298	47.66	330	62.73	134	73.51	793	79.29	26
27	309	9.39	966	29.68	284	47.94	311	62.95	112	73.65	770	79.34	27
28	306	9.74	957	30.01	270	48.22	293	63.16	091	73.79	747	79.39	28
29	303	10.09	948	30.33	256	48.50	275	63.38	070	73.93	724	79.44	29
30	5.300	10.43	4.939	30.65	4.242	48.78	3.256	63.59	2.048	74.06	0.700	79.49	30
31	297	10.78	930	30.98	228	49.06	238	63.80	027	74.19	677	79.54	31
32	294	11.13	921	31.30	213	49.34	219	64.01	2.005	74.32	654	79.58	32
33	290	11.47	912	31.62	199	49.61	201	64.22	1.983	74.45	631	79.62	33
34	287	11.82	903	31.94	185	49.89	182	64.43	961	74.58	608	79.66	34
35	283	12.16	893	32.26	170	50.16	163	64.64	939	74.71	584	79.70	35
36	280	12.51	884	32.58	156	50.43	144	64.85	918	74.84	561	79.74	36
37	276	12.86	874	32.90	141	50.70	125	65.05	896	74.96	538	79.77	37
38	272	13.20	865	33.22	126	50.97	106	65.26	874	75.09	515	79.81	38
39	268	13.55	855	33.54	111	51.24	087	65.46	852	75.21	492	79.84	39
40	5.264	13.89	4.845	33.85	4.096	51.51	3.068	65.66	1.830	75.33	0.468	79.87	40
41	260	14.24	835	34.17	081	51.78	049	65.86	808	75.45	445	79.90	41
42	256	14.58	825	34.49	066	52.05	030	66.06	786	75.57	422	79.93	42
43	252	14.93	815	34.80	051	52.31	3.011	66.25	764	75.68	399	79.95	43
44	248	15.27	805	35.12	036	52.58	2.992	66.45	742	75.80	376	79.98	44
45	243	15.61	795	35.43	020	52.84	972	66.64	720	75.91	352	80.00	45
46	239	15.96	785	35.75	4.005	53.10	953	66.84	698	76.02	329	80.02	46
47	234	16.30	774	36.06	3.989	53.36	933	67.03	676	76.13	306	80.04	47
48	229	16.64	764	36.37	974	53.62	914	67.22	654	76.24	283	80.06	48
49	224	16.98	753	36.68	958	53.88	894	67.41	632	76.35	260	80.08	49
50	5.219	17.32	4.742	36.99	3.942	54.14	2.874	67.60	1.610	76.45	0.236	80.10	50
51	214	17.66	731	37.30	927	54.40	855	67.79	588	76.56	213	80.12	51
52	209	18.00	720	37.61	911	54.66	835	67.98	565	76.66	190	80.13	52
53	204	18.34	709	37.92	895	54.91	815	68.16	543	76.76	166	80.14	53
54	199	18.68	698	38.23	879	55.17	795	68.35	521	76.86	143	80.15	54
55	193	19.02	687	38.53	863	55.42	775	68.53	498	76.96	119	80.16	55
56	188	19.36	676	38.84	847	55.67	755	68.71	476	77.06	096	80.17	56
57	182	19.70	665	39.14	830	55.92	735	68.89	454	77.16	073	80.17	57
58	176	20.04	653	39.45	814	56.17	715	69.07	431	77.25	049	80.18	58
59	170	20.38	642	39.76	798	56.42	695	69.25	409	77.35	026	80.18	59
60	5.164	20.72	4.630	40.06	3.781	56.67	2.675	69.42	1.386	77.44	0.002	80.18	60

Reduktionsgrößen 1929

Übertragung von Sternörtern vom mittleren Äquinoktium 1929.0 auf das Normaläquinoktium 1925.0

α	A	A_2	D_1	α	α	A	A_2	D_1	α
h m	s	s	"	h m	h m	s	s	"	h m
0 0	−12.291	+0.0000	−0.000	12 0	6 0	−12.291	−0.0000	−0.016	18 0
10	291	1	0	10	10	291	1	16	10
20	291	2	0	20	20	291	2	15	20
30	291	3	0	30	30	291	3	15	30
40	291	4	0	40	40	292	4	15	40
50	291	4	1	50	50	292	4	15	50
1 0	−12.291	+0.0005	−0.001	13 0	7 0	−12.292	−0.0005	−0.015	19 0
10	291	6	1	10	10	292	6	14	10
20	291	7	2	20	20	292	7	14	20
30	291	7	2	30	30	292	7	13	30
40	291	8	3	40	40	292	8	13	40
50	291	9	3	50	50	292	9	12	50
2 0	−12.291	+0.0009	−0.004	14 0	8 0	−12.292	−0.0009	−0.012	20 0
10	291	9	4	10	10	292	9	11	10
20	291	10	5	20	20	292	10	10	20
30	291	10	6	30	30	292	10	10	30
40	291	10	6	40	40	292	10	9	40
50	291	10	7	50	50	292	10	8	50
3 0	−12.291	+0.0010	−0.008	15 0	9 0	−12.292	−0.0010	−0.008	21 0
10	291	10	8	10	10	292	10	7	10
20	291	10	9	20	20	292	10	6	20
30	291	10	10	30	30	292	10	6	30
40	291	10	10	40	40	292	10	5	40
50	291	9	11	50	50	292	9	4	50
4 0	−12.291	+0.0009	−0.012	16 0	10 0	−12.292	−0.0009	−0.004	22 0
10	291	9	12	10	10	292	9	3	10
20	291	8	13	20	20	292	8	3	20
30	291	7	13	30	30	292	7	2	30
40	291	7	14	40	40	292	7	2	40
50	291	6	14	50	50	292	6	1	50
5 0	−12.291	+0.0005	−0.015	17 0	11 0	−12.292	−0.0005	−0.001	23 0
10	291	4	15	10	10	292	4	1	10
20	291	4	15	20	20	292	4	0	20
30	291	3	15	30	30	291	3	0	30
40	291	2	15	40	40	291	2	0	40
50	291	1	16	50	50	291	1	0	50
6 0	−12.291	+0.0000	−0.016	18 0	12 0	−12.291	−0.0000	−0.000	24 0

$$\alpha_{1925} = \alpha_{1929} + A + A_1 \operatorname{tg} \delta_{1929} + A_2 \operatorname{tg}^2 \delta_{1929}$$
$$\delta_{1925} = \delta_{1929} + D + D_1 \operatorname{tg} \delta_{1929}$$

A_1 und D sind aus der Tafel (S. 284*/285*) mit dem Argument α_{1929} zu entnehmen; für die Werte von α zwischen 0^h und 12^h gelten die Vorzeichen zur Linken, für die Werte von α zwischen 12^h und 24^h die Vorzeichen zur Rechten.

Finsternisse, Sternbedeckungen, Mösting A, Trabanten

Konstellationen, Hülfstafeln

1929

Im Jahre 1929 finden zwei Sonnenfinsternisse statt. Der Mond wird nicht verfinstert.

I. Totale Sonnenfinsternis 1929 Mai 9

Konjunktion in Rektaszension . . Mai 9, 5h 58m 0.2s Welt-Zeit

Rektaszension des Mondes	3h 2m 36.70s
Stündliche Änderung	2 24.02
Rektaszension der Sonne	3 2 36.70
Stündliche Änderung	9.73
Deklination des Mondes	+16° 55′ 16.8″
Stündliche Änderung	+ 13 31.2
Deklination der Sonne	+17 14 1.9
Stündliche Änderung	+ 0 40.4
Äquatorialhorizontalparallaxe des Mondes . .	60′ 24.7″
» der Sonne . . .	8.7
Halbmesser des Mondes	16′ 26.9″
» der Sonne	15 50.3

	Welt-Zeit	Westl. Länge v. Greenwich	Geogr. Breite
Anfang der Finsternis	Mai 9, 3h 32.5m	313° 13′	−31° 12′
Anfang der zentralen Verfinsterung	» 4 30.2	325 3	−36 46
Zentrale Finsternis im wahren Mittag	» 5 58.0	270 25	− 0 54
Ende der zentralen Verfinsterung	» 7 50.1	206 57	+ 4 48
Ende der Finsternis	» 8 47.7	219 32	+10 30

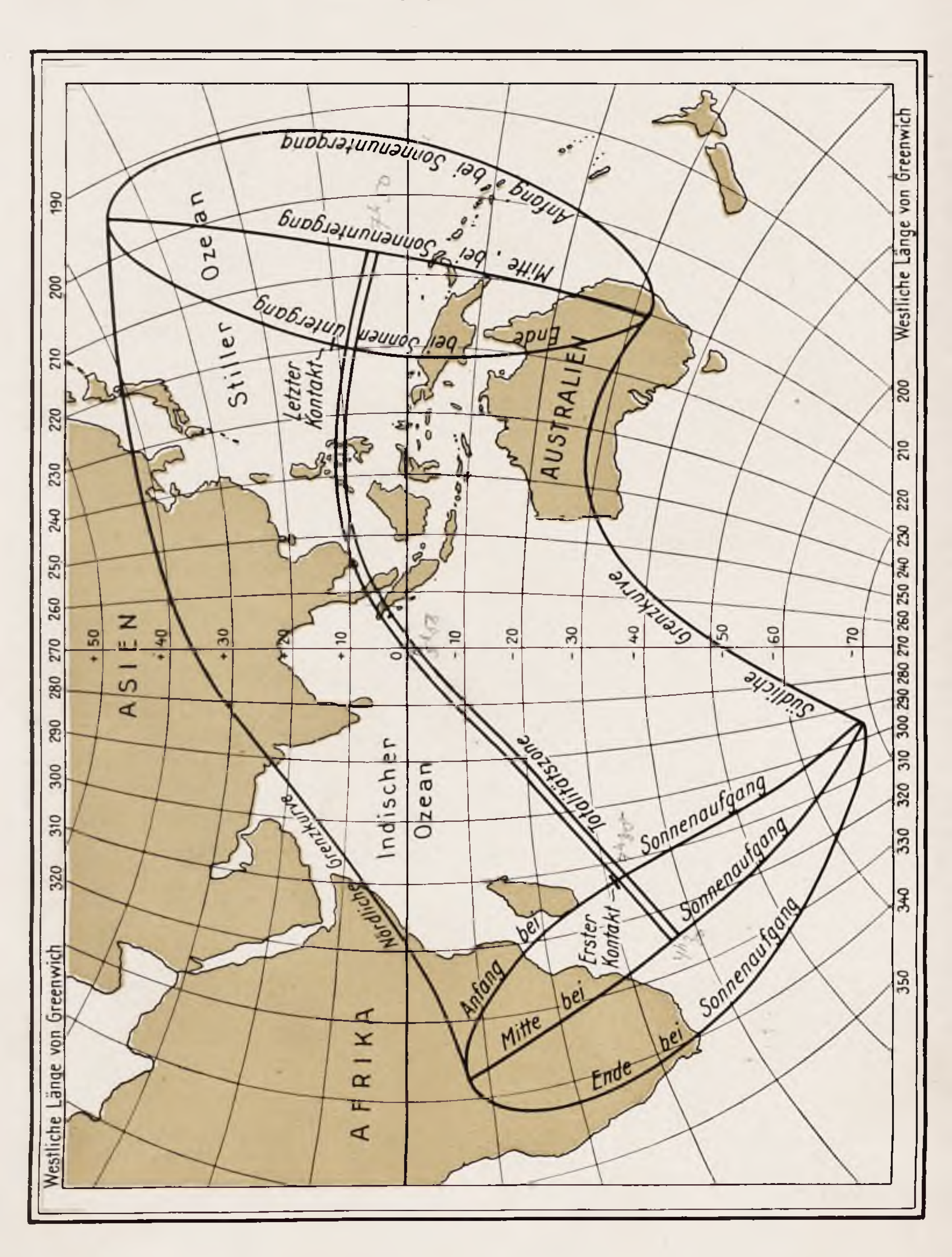
Verlauf der Zentrallinie

Welt-Zeit	Westl. Länge v. Greenw.	Geogr. Breite	Dauer der Totalität	Welt-Zeit	Westl. Länge v. Greenw.	Geogr. Breite	Dauer der Totalität
4h 30.2m	325° 3′	−36° 46′	—	6h 20m	264° 37.4′	+ 3° 27.1′	5m 7.2s
4 35	307 36.3	−29 38.9	2m 46.2s	6 40	258 50.7	+ 6 42.8	4 59.7
4 40	301 25.6	−26 13.8	3 3.8	7 0	252 0.1	+ 9 13.2	4 39.4
5 0	288 30.8	−17 5.5	3 51.6	7 20	243 4.8	+10 40.6	4 5.4
5 20	280 59.2	−10 29.3	4 25.0	7 40	228 58.0	+10 2.8	3 13.1
5 40	275 9.0	− 5 4.4	4 48.7	7 45	222 56.2	+ 9 0.4	2 54.0
6 0	269 53.8	− 0 28.3	5 3.2	7 50.1	206 57	+ 4 48	—

Die Finsternis ist sichtbar im südöstlichen Afrika, im Indischen Ozean, in Indien, China, Japan mit Ausnahme der nördlichen Inseln, auf den großen Sunda-Inseln, Neuguinea und in Australien mit Ausnahme des südlichsten Teiles.

Totale Sonnenfinsternis

1929 Mai 9



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Elemente der totalen Sonnenfinsternis 1929 Mai 9

Welt-Zeit	x	y	log sin d	log cos d	μ	$l^{(a)}$	$l^{(i)}$
3ʰ 30ᵐ	−1.31425	−0.83775	9.47106	9.98011	233° 24.4′	+0.53587	−0.00999
40	1.22549	0.80214	9.47111	9.98011	235 54.4	0.53587	0.01000
50	1.13672	0.76653	9.47115	9.98010	238 24.5	0.53587	0.01000
4 0	−1.04795	−0.73093	9.47120	9.98010	240 54.5	+0.53586	−0.01000
10	0.95917	0.69534	9.47124	9.98009	243 24.5	0.53586	0.01001
20	0.87038	0.65974	9.47128	9.98009	245 54.5	0.53585	0.01001
30	0.78160	0.62415	9.47133	9.98009	248 24.5	0.53585	0.01002
40	0.69280	0.58857	9.47137	9.98008	250 54.6	0.53584	0.01003
50	0.60399	0.55299	9.47141	9.98008	253 24.6	0.53583	0.01003
5 0	−0.51519	−0.51741	9.47146	9.98007	255 54.6	+0.53582	−0.01004
10	0.42638	0.48184	9.47150	9.98007	258 24.6	0.53581	0.01005
20	0.33756	0.44627	9.47154	9.98006	260 54.6	0.53580	0.01006
30	0.24874	0.41071	9.47159	9.98006	263 24.6	0.53579	0.01007
40	0.15992	0.37515	9.47163	9.98006	265 54.7	0.53578	0.01008
50	−0.07110	0.33960	9.47167	9.98005	268 24.7	0.53577	0.01009
6 0	+0.01773	−0.30405	9.47172	9.98005	270 54.7	+0.53576	−0.01011
10	0.10656	0.26851	9.47176	9.98004	273 24.7	0.53575	0.01012
20	0.19540	0.23297	9.47180	9.98004	275 54.7	0.53573	0.01013
30	0.28423	0.19744	9.47185	9.98004	278 24.8	0.53572	0.01015
40	0.37307	0.16191	9.47189	9.98003	280 54.8	0.53570	0.01016
50	0.46191	0.12639	9.47194	9.98003	283 24.8	0.53569	0.01018
7 0	+0.55076	−0.09087	9.47198	9.98002	285 54.8	+0.53567	−0.01020
10	0.63960	0.05536	9.47202	9.98002	288 24.8	0.53565	0.01021
20	0.72845	−0.01985	9.47207	9.98002	290 54.9	0.53564	0.01023
30	0.81729	+0.01565	9.47211	9.98001	293 24.9	0.53562	0.01025
40	0.90614	0.05115	9.47215	9.98001	295 54.9	0.53560	0.01027
50	0.99499	0.08664	9.47220	9.98000	298 24.9	0.53558	0.01029
8 0	+1.08384	+0.12212	9.47224	9.98000	300 54.9	+0.53556	−0.01031
10	1.17268	0.15760	9.47228	9.97999	303 25.0	0.53554	0.01033
20	1.26153	0.19307	9.47233	9.97999	305 55.0	0.53551	0.01035
30	1.35038	0.22853	9.47237	9.97998	308 25.0	0.53549	0.01037
40	1.43922	0.26399	9.47241	9.97998	310 55.0	0.53547	0.01040
50	+1.52807	+0.29944	9.47246	9.97998	313 25.0	+0.53544	−0.01042

Welt-Zeit	x'	y'	log tang $f^{(a)}$	log tang $f^{(i)}$
3ʰ 0ᵐ	+0.008874	+0.003562	7.66560	7.66343
4 0	0.008878	0.003560	7.66560	7.66343
5 0	0.008881	0.003557	7.66559	7.66342
6 0	0.008883	0.003554	7.66559	7.66342
7 0	0.008884	0.003551	7.66558	7.66342
8 0	0.008885	0.003548	7.66558	7.66341
9 0	+0.008884	+0.003544	7.66558	7.66341

II. Ringförmige Sonnenfinsternis 1929 November 1

Konjunktion in Rektaszension November 1, 11ʰ 46ᵐ 31ˢ.8 Welt-Zeit

Rektaszension des Mondes	14ʰ 24ᵐ 46ˢ.86
Stündliche Änderung	2 1.15
Rektaszension der Sonne	14 24 46.86
Stündliche Änderung	9.79
Deklination des Mondes	−14° 0′ 26″.4
Stündliche Änderung	−13 5.2
Deklination der Sonne	−14 22 5.4
Stündliche Änderung	−0 48.2
Äquatorialhorizontalparallaxe des Mondes . . .	56′ 15″.4
» der Sonne . . .	8.9
Halbmesser des Mondes	15′ 19″.0
» der Sonne	16 7.1

	Welt-Zeit	Westl. Länge v. Greenwich	Geogr. Breite
Beginn der Finsternis . . November 1,	9ʰ 12ᵐ.3	41° 21′	+36° 17′
Beginn der zentralen Finsternis »	10 18.6	54 42	+43 27
Zentrale Finsternis im wahren Mittag . . . . »	11 46.5	0 43	+ 8 23
Ende der zentralen Finsternis »	13 50.9	300 50	− 3 45
Ende der Finsternis . . . . »	14 57.2	315 29	−11 6

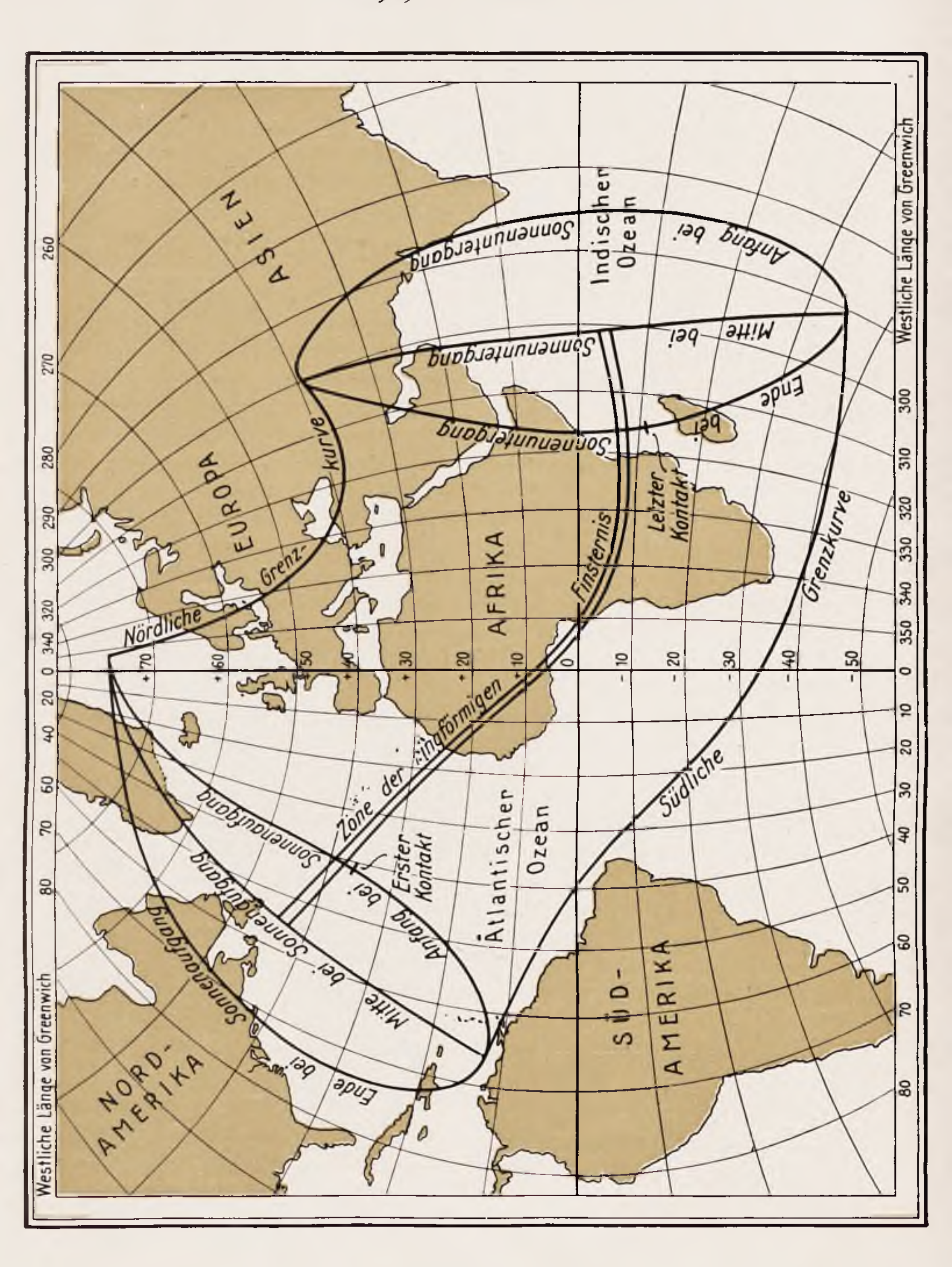
Verlauf der Zentrallinie

Welt-Zeit	Westl. Länge v. Greenw.	Geogr. Breite	Dauer der ringf. Verf.	Welt-Zeit	Westl. Länge v. Greenw.	Geogr. Breite	Dauer der ringf. Verf.
10ʰ 18ᵐ.6	54° 42′	+43° 27′	ᵐ ˢ —	12ʰ 0ᵐ	357° 51′.0	+5° 26′.0	3ᵐ 52ˢ.9
10 20	44 14.7	+40 11.3	3 22.0	12 20	353 30.0	+1 28.4	3 56.3
10 40	21 18.4	+28 9.0	3 31.8	12 40	348 39.6	−1 58.7	3 57.7
11 0	12 37.3	+20 52.4	3 37.9	13 0	342 48.6	−4 51.4	3 56.2
11 20	6 48.5	+14 58.8	3 43.4	13 20	335 0.7	−6 56.7	3 50.8
11 40	2 7.9	+ 9 54.4	3 48.5	13 40	322 24.7	−7 28.5	3 40.0
12 0	357 51.0	+ 5 26.0	3 52.9	13 50.9	300 50	−3 45	—

Die Finsternis ist sichtbar im Atlantischen Ozean, in West- und Mitteleuropa, in Afrika und im westlichen Teil des Indischen Ozeans.

Ringförmige Sonnenfinsternis

1929 November 1



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Elemente der ringförmigen Sonnenfinsternis 1929 November 1

Welt-Zeit	x	y	log sin d	log cos d	μ	$l^{(a)}$	$l^{(i)}$
9h 10m	−1.25571	+0.95696	9.39375$_n$	9.98626	321° 34.7′	+0.55989	+0.01390
20	1.17552	0.92045	9.39381$_n$	9.98626	324 4.7	0.55992	0.01393
30	1.09532	0.88395	9.39388$_n$	9.98625	326 34.7	0.55995	0.01396
40	1.01511	0.84745	9.39394$_n$	9.98625	329 4.7	0.55997	0.01399
50	0.93490	0.81095	9.39400$_n$	9.98624	331 34.8	0.56000	0.01401
10 0	−0.85469	+0.77446	9.39407$_n$	9.98624	334 4.8	+0.56003	+0.01404
10	0.77447	0.73797	9.39413$_n$	9.98624	336 34.8	0.56006	0.01407
20	0.69425	0.70148	9.39420$_n$	9.98623	339 4.8	0.56008	0.01409
30	0.61403	0.66499	9.39426$_n$	9.98623	341 34.8	0.56011	0.01412
40	0.53380	0.62851	9.39432$_n$	9.98622	344 4.8	0.56013	0.01414
50	0.45357	0.59203	9.39439$_n$	9.98622	346 34.8	0.56016	0.01417
11 0	−0.37334	+0.55555	9.39445$_n$	9.98622	349 4.9	+0.56018	+0.01419
10	0.29311	0.51907	9.39451$_n$	9.98621	351 34.9	0.56020	0.01421
20	0.21288	0.48260	9.39458$_n$	9.98621	354 4.9	0.56022	0.01424
30	0.13264	0.44613	9.39464$_n$	9.98620	356 34.9	0.56025	0.01426
40	−0.05240	0.40967	9.39470$_n$	9.98620	359 4.9	0.56027	0.01428
50	+0.02784	0.37321	9.39477$_n$	9.98620	1 34.9	0.56029	0.01430
12 0	+0.10808	+0.33675	9.39483$_n$	9.98619	4 5.0	+0.56031	+0.01432
10	0.18832	0.30030	9.39489$_n$	9.98619	6 35.0	0.56033	0.01434
20	0.26856	0.26385	9.39496$_n$	9.98618	9 5.0	0.56035	0.01436
30	0.34881	0.22741	9.39502$_n$	9.98618	11 35.0	0.56037	0.01438
40	0.42905	0.19097	9.39508$_n$	9.98617	14 5.0	0.56038	0.01439
50	0.50930	0.15454	9.39515$_n$	9.98617	16 35.0	0.56040	0.01441
13 0	+0.58954	+0.11811	9.39521$_n$	9.98617	19 5.0	+0.56042	+0.01443
10	0.66978	0.08168	9.39527$_n$	9.98616	21 35.1	0.56043	0.01444
20	0.75003	0.04526	9.39534$_n$	9.98616	24 5.1	0.56045	0.01446
30	0.83027	+0.00885	9.39540$_n$	9.98615	26 35.1	0.56046	0.01447
40	0.91051	−0.02756	9.39546$_n$	9.98615	29 5.1	0.56048	0.01449
50	0.99075	0.06397	9.39553$_n$	9.98614	31 35.1	0.56049	0.01450
14 0	+1.07099	−0.10037	9.39559$_n$	9.98614	34 5.1	+0.56050	+0.01451
10	1.15123	0.13676	9.39565$_n$	9.98614	36 35.1	0.56051	0.01452
20	1.23147	0.17315	9.39572$_n$	9.98613	39 5.2	0.56053	0.01454
30	1.31170	0.20953	9.39578$_n$	9.98613	41 35.2	0.56054	0.01455
40	1.39194	0.24591	9.39584$_n$	9.98612	44 5.2	0.56055	0.01456
50	1.47217	0.28228	9.39591$_n$	9.98612	46 35.2	0.56056	0.01457
15 0	+1.55239	−0.31864	9.39597$_n$	9.98612	49 5.2	+0.56057	+0.01458

Welt-Zeit	x'	y'	log tang $f^{(a)}$	log tang $f^{(i)}$
9h 0m	+0.008019	−0.003651	7.67327	7.67110
10 0	0.008021	0.003649	7.67328	7.67111
11 0	0.008023	0.003648	7.67328	7.67111
12 0	0.008024	0.003646	7.67329	7.67112
13 0	0.008024	0.003643	7.67329	7.67112
14 0	0.008024	0.003640	7.67330	7.67113
15 0	+0.008022	−0.003636	7.67330	7.67113

Ringförmige Sonnenfinsternis 1929 November 1

φ	Östl. Länge von Greenwich	Anfang der Finsternis			Größte Phase		Ende der Finsternis		
		Welt-Zeit	P	Q	Welt-Zeit	Betrag	Welt-Zeit	P	Q
	m	h m	°	°	h m		h m	°	°
44°	20	10 9.6	259.7	275.0	11 10.2	0.25	12 13.0	174.0	163.6
	40	10 24.9	253.1	261.3	11 19.4	0.19	12 15.1	179.2	164.3
	60	10 43.0	245.6	245.8	11 29.4	0.13	12 16.2	184.6	165.9
	80	11 4.0	236.9	228.3	11 39.9	0.07	12 15.9	190.8	168.7
	100	11 29.0	226.2	208.7	11 50.9	0.03	12 12.8	198.2	173.3
46°	20	10 12.2	256.8	270.8	11 9.4	0.23	12 8.4	175.9	167.0
	40	10 27.5	250.1	257.3	11 18.2	0.16	12 9.8	181.1	168.1
	60	10 45.6	242.5	242.2	11 27.7	0.11	12 10.1	186.9	170.2
	80	11 7.1	233.3	224.7	11 37.8	0.06	12 8.6	193.5	173.7
	100	11 35.2	220.3	203.3	11 48.1	0.01	12 1.3	203.5	181.1
48°	20	10 15.1	253.8	266.5	11 8.7	0.20	12 3.9	177.7	170.1
	40	10 30.4	247.1	253.4	11 17.2	0.14	12 4.7	183.1	171.8
	60	10 48.5	239.3	238.5	11 26.2	0.09	12 4.2	189.2	174.4
	80	11 10.7	229.5	220.9	11 35.8	0.04	12 1.0	196.6	179.0
50°	20	10 18.2	250.8	262.3	11 8.3	0.18	11 59.6	179.6	173.1
	40	10 33.4	244.0	249.4	11 16.3	0.12	11 59.8	185.1	175.2
	60	10 51.7	236.0	234.6	11 24.9	0.07	11 58.4	191.5	178.5
	80	11 15.2	225.1	216.0	11 34.0	0.02	11 53.0	200.2	184.6
52°	20	10 21.5	247.8	258.1	11 8.0	0.16	11 55.5	181.4	176.0
	40	10 36.7	241.0	245.5	11 15.6	0.10	11 55.0	187.1	178.5
	60	10 55.1	232.6	230.6	11 23.7	0.05	11 52.5	193.9	182.5
	80	11 21.2	219.6	210.1	11 32.3	0.01	11 43.4	204.9	191.8
54°	20	10 25.0	244.8	253.9	11 7.8	0.14	11 51.6	183.2	178.8
	40	10 40.1	237.9	241.6	11 15.1	0.09	11 50.4	189.1	181.7
	60	10 58.8	229.0	226.6	11 22.7	0.04	11 46.7	196.5	186.7
56°	20	10 28.6	241.8	249.9	11 7.8	0.12	11 47.8	185.0	181.4
	40	10 43.6	234.7	237.7	11 14.7	0.07	11 45.9	191.1	184.8
	60	11 3.0	225.2	222.3	11 21.8	0.02	11 40.7	199.3	190.9
58°	20	10 32.2	238.8	246.0	11 8.0	0.10	11 44.2	186.8	184.0
	40	10 47.2	231.6	233.8	11 14.4	0.05	11 41.6	193.2	187.9
	60	11 7.9	220.9	217.4	11 21.0	0.01	11 34.2	202.6	195.7
60°	20	10 36.0	235.8	242.2	11 8.2	0.08	11 40.8	188.6	186.4
	40	10 51.0	228.4	229.8	11 14.2	0.04	11 37.4	195.2	190.8
	60	11 15.9	214.5	210.2	11 20.4	0.00	11 25.1	207.9	202.5

I. Verzeichnis von Fixsternen, die in Mitteleuropa vom Monde bedeckt werden

Nr.*)	Name	Gr.	$\alpha_{1929.0}$	$\delta_{1929.0}$	Nr.*)	Name	Gr.	$\alpha_{1929.0}$	$\delta_{1929.0}$
			h m s	° ′				h m s	° ′
18	Ceti	6.3	0 20 52	— 2 36.7	499	Geminorum	6.1	7 10 22	+25 0.6
33	Ceti	5.4	0 31 54	— 0 53.7	502	Geminorum	6.5	7 12 40	+26 49.1
68	Ceti	6.1	1 6 54	+ 2 4.1	507	*A* Geminorum	5.1	7 19 9	+25 11.3
76	*f* Piscium	5.3	1 14 8	+ 3 14.5	529	*c* Geminorum	5.5	7 39 47	+25 57.3
87	μ Piscium	5.0	1 26 28	+ 5 46.7	530	κ Geminorum	3.6	7 40 10	+24 34.2
105	ο Piscium	4.5	1 41 39	+ 8 48.1	542	ω Cancri	6.1	7 56 38	+25 35.3
162	ο Arietis	5.8	2 40 38	+15 0.7	547	Cancri	6.2	7 57 27	+25 17.2
169	σ Arietis	5.4	2 47 34	+14 47.4	567	λ Cancri	5.9	8 16 19	+24 14.8
170	Arietis	6.4	2 49 14	+16 11.7	575	Cancri	6.1	8 24 24	+24 22.9
181	Arietis	6.5	3 0 43	+15 34.8	577	υ¹ Cancri	5.7	8 27 19	+24 19.3
184	Arietis	6.0	3 3 26	+17 36.4	632	Cancri	6.1	9 9 34	+21 34.6
200	Arietis	6.4	3 23 0	+18 30.5	656	Leonis	6.5	9 40 33	+19 11.4
213	Tauri	5.6	3 38 13	+19 28.4	673	Leonis	6.3	10 1 50	+16 6.2
214	Tauri	6.2	3 39 41	+19 26.5	676	η Leonis	3.6	10 3 28	+17 6.6
215	Tauri	6.1	3 40 20	+20 42.3	687	Leonis	6.1	10 18 1	+15 20.0
246	*A* Tauri	4.5	4 0 30	+21 53.4	698	Leonis	5.8	10 28 25	+14 30.1
248	Tauri	6.1	4 1 8	+21 49.1	763	ν Virginis	4.2	11 42 13	+ 6 55.6
259	Tauri	6.1	4 8 38	+22 13.9	776	*b* Virginis	5.2	11 56 19	+ 4 3.0
263	Tauri	5.6	4 14 11	+21 24.4	786	Virginis	6.2	12 6 3	+ 2 17.8
265	Tauri	5.2	4 15 24	+21 36.2	819	γ Virginis	2.9	12 38 4	— 1 3.6
284	κ Tauri	4.1	4 21 8	+22 8.0	827	Virginis	6.1	12 49 33	— 3 10.0
285	Tauri	5.4	4 21 11	+22 2.3	828	Virginis	6.5	12 49 58	— 3 50.3
288	υ Tauri	4.2	4 22 3	+22 39.2	834	*k* Virginis	5.7	12 56 0	— 3 25.8
291	Tauri	5.4	4 23 3	+22 50.3	835	Virginis	6.1	12 56 56	— 2 59.2
292	Tauri	5.8	4 23 48	+21 27.7	837	Virginis	6.5	13 0 15	— 3 16.9
314	Tauri	6.0	4 32 13	+23 11.8	841	ϑ Virginis	4.4	13 6 16	— 5 9.6
320	τ Tauri	4.3	4 37 59	+22 49.3	859	Virginis	6.1	13 26 43	— 6 6.3
321	Tauri	6.2	4 38 56	+23 57.3	872	*m* Virginis	5.2	13 37 53	— 8 20.7
322	Tauri	6.2	4 41 25	+23 30.0	880	Virginis	6.2	13 43 28	— 9 21.3
330	Tauri	6.3	4 51 56	+24 28.8	916	λ Virginis	4.5	14 15 16	—13 2.7
332	Tauri	6.0	4 53 30	+23 50.3	938	Librae	5.4	14 46 45	—15 42.2
333	*k* Tauri	5.6	4 53 49	+24 56.5	939	α Librae	2.7	14 46 57	—15 44.9
345	Tauri	5.5	5 3 47	+24 10.4	963	Librae	6.3	15 10 33	—17 30.3
372	Tauri	5.4	5 24 54	+25 5.7	975	Librae	6.2	15 26 30	—20 29.1
385	Tauri	5.1	5 35 20	+25 51.5	977	Librae	6.1	15 27 38	—19 55.4
407	Tauri	4.7	5 53 35	+25 56.8	979	Librae	5.4	15 28 32	—19 25.8
477	Geminorum	5.7	6 50 57	+25 28.0	985	Librae	5.9	15 34 8	—20 46.9
479	Geminorum	6.2	6 54 25	+26 10.5	1019	δ Scorpii	2.7	15 56 8	—22 25.3
480	Geminorum	6.3	6 55 5	+26 0.7	1027	Scorpii	5.7	16 1 52	—23 24.8
492	Geminorum	5.6	7 6 59	+26 58.5	1034	Scorpii	5.8	16 4 29	—23 29.8

*) Nummern des Catalogue of Zodiacal Stars by H. B. Hedrick (Astronomical Papers of the American Ephemeris, Vol VIII, Part III).

Sternbedeckungen 1929

I. Verzeichnis von Fixsternen, die in Mitteleuropa vom Monde bedeckt werden

Nr.*)	Name	Gr.	$\alpha_{1929.0}$	$\delta_{1929.0}$	Nr.*)	Name	Gr.	$\alpha_{1929.0}$	$\delta_{1929.0}$
			h m s	° ′				h m s	° ′
1053	Scorpii	4.9	16 16 22	—24 0.0	1366	Capricorni	6.2	20 28 39	—25 11.1
1059	ρ Ophiuchi	4.7	16 21 19	—23 17.1	1388	Capricorni	6.2	20 48 52	—24 3.0
1072	Scorpii	6.1	16 37 18	—24 19.9	1426	Capricorni	5.3	21 20 8	—21 9.3
1109	Ophiuchi	6.3	17 7 52	—25 10.1	1430	Capricorni	6.0	21 23 14	—21 30.3
1112	Ophiuchi	5.4	17 10 59	—26 30.0	1438	Capricorni	5.7	21 30 52	—20 24.1
1132	Ophiuchi	6.3	17 22 32	—25 52.9	1448	Capricorni	6.1	21 39 15	—19 56.8
1148	Sagittarii	6.2	17 44 1	—26 57.1	1459	Capricorni	6.1	21 47 45	—18 57.3
1160	Sagittarii	5.7	17 52 13	—28 3.3	1467	Capricorni	6.4	21 58 17	—18 14.7
1178	Sagittarii	4.7	18 3 35	—28 28.0	1519	Aquarii	5.6	22 43 57	—14 25.9
1194	Sagittarii	4.7	18 13 37	—27 4.2	1522	τ Aquarii	4.4	22 45 50	—13 58.1
1202	Sagittarii	6.1	18 17 31	—28 27.8	1550	Aquarii	6.3	23 10 58	—11 4.5
1264	τ Sagittarii	3.5	19 2 31	—27 46.5	1556	ψ^2 Aquarii	4.6	23 14 13	— 9 34.2
1289	Sagittarii	5.9	19 20 5	—28 0.3	1557	ψ^3 Aquarii	5.2	23 15 16	—10 0.0
1297	Sagittarii	5.7	19 25 29	—27 7.9	1566	Aquarii	6.3	23 25 21	— 9 39.4
1321	ω Sagittarii	4.8	19 51 30	—26 29.3	1577	Aquarii	6.5	23 31 52	— 7 51.5
1324	*A* Sagittarii	4.9	19 54 38	—26 23.3	1588	Aquarii	6.3	23 44 54	— 6 46.5

*) Nummern des Catalogue of Zodiacal Stars by H. B. Hedrick (Astronomical Papers of the American Ephemeris, Vol VIII, Part III).

II. Konjunktionszeiten der in Mitteleuropa sichtbaren Sternbedeckungen

Nr.	Größe	Konjunktion in Rektaszension (Welt-Zeit)		Nr.	Größe	Konjunktion in Rektaszension (Welt-Zeit)		Nr.	Größe	Konjunktion in Rektaszension (Welt-Zeit)	
		1929	h m			1929	h m			1929	h m
763	4.2	Jan. 1	7 20.0	477	5.7	Jan. 23	17 16.9	1297	5.7	Febr. 7	5 18.7
837	6.5	3	0 20.4	479	6.2	23	18 32.0	213	5.6	16	22 40.6
979	5.4	6	7 21.1	480	6.3	23	18 46.4	214	6.2	16	23 17.8
1109	6.3	8	7 50.2	499	6.1	24	0 17.7	284	4.1	17	16 26.5
1459	6.1	13	15 44.7	507	5.1	24	3 29.0	285	5.4	17	16 27.8
1519	5.6	14	19 13.5	567	5.9	25	0 34.6	292	5.8	17	17 31.0
1566	6.3	15	16 0.4	687	6.1	27	1 47.8	320	4.3	17	23 11.6
18	6.3	16	20 9.8	698	5.8	27	6 23.3	322	6.2	18	0 33.4
68	6.1	17	19 14.5	776	5.2	29	0 2.6	372	5.4	18	17 27.9
76	5.3	17	22 48.6	819	2.9	29	21 21.9	407	4.7	19	4 20.6
181	6.5	20	0 28.1	834	5.7	30	6 44.2	477	5.7	20	1 46.1
320	4.3	21	16 17.5	835	6.1	30	7 13.8	479	6.2	20	3 3.6
332	6.0	21	22 14.1	859	6.1	30	22 57.7	480	6.3	20	3 18.5
345	5.5	22	2 7.4	872	5.2	31	4 53.1	530	3.6	20	20 11.4
407	4.7	22	20 32.4	963	6.3	Febr. 2	5 31.2	673	6.3	23	4 56.8

II. Konjunktionszeiten der in Mitteleuropa sichtbaren Sternbedeckungen

Nr.	Größe	Konjunktion in Rektaszension (Welt-Zeit) 1929	h m	Nr.	Größe	Konjunktion in Rektaszension (Welt-Zeit) 1929	h m	Nr.	Größe	Konjunktion in Rektaszension (Welt-Zeit) 1929	h m
676	3.6	Febr. 23	5 39.1	916	4.5	April 24	2 26.6	1019	2.7	Juli 16	23 48.9
698	5.8	23	16 38.6	938	5.4	24	18 35.1	1072	6.1	17	19 35.4
938	5.4	März 1	1 52.5	939	2.7	24	18 40.9	1297	5.7	21	0 28.6
939	2.7	1	1 58.4	1072	6.1	27	0 37.2	1459	6.1	23	19 42.8
979	5.4	1	23 0.7	1519	5.6	Mai 4	3 40.0	1467	6.4	24	0 58.2
1059	4.7	3	0 54.0	18	6.3	6	3 53.6	1519	5.6	25	0 13.0
1132	6.3	4	5 45.0	479	6.2	12	21 28.6	1522	4.4	25	1 11.6
1194	4.7	5	5 4.7	480	6.3	12	21 43.2	1566	6.3	25	21 49.3
1459	6.1	9	6 25.6	542	6.1	13	20 37.8	18	6.3	27	3 4.6
87	5.0	13	16 50.1	547	6.2	13	20 56.4	162	5.8	30	0 30.6
200	6.4	15	21 42.7	676	3.6	16	0 52.3	169	5.4	30	3 39.6
263	5.6	16	19 1.9	938	5.4	22	1 10.6	213	5.6	31	1 42.3
265	5.2	16	19 31.7	939	2.7	22	1 16.5	214	6.2	31	2 19.0
284	4.1	16	21 50.8	977	6.1	22	21 48.2	314	6.0	31	23 30.1
285	5.4	16	21 52.1	979	5.4	22	22 14.9	321	6.2	Aug. 1	2 6.6
288	4.2	16	22 13.1	985	5.9	23	1 1.4	322	6.2	1	3 4.3
291	5.4	16	22 37.0	1059	4.7	23	23 54.6	385	5.1	1	23 17.6
372	5.4	17	22 57.5	1112	5.4	24	23 10.8	985	5.9	12	19 55.4
Mars	0.8	18	17 28.7	1264	3.5	27	1 51.6	1112	5.4	14	17 57.3
507	5.1	19	18 29.1	1321	4.8	28	0 12.1	1264	3.5	16	20 35.7
567	5.9	20	16 43.4	1324	4.9	28	1 38.8	1321	4.8	17	18 51.2
656	6.5	22	3 32.0	1388	6.2	29	3 0.8	1324	4.9	17	20 17.5
687	6.1	22	20 6.5	1448	6.1	30	3 22.6	1388	6.2	18	21 31.7
698	5.8	23	0 50.2	1550	6.3	Juni 1	1 33.7	1438	5.7	19	17 41.8
776	5.2	24	19 6.1	Venus*)	-4.2	4	11 57.9	1459	6.1	20	1 58.9
834	5.7	26	1 33.8	656	6.5	11	22 0.8	1550	6.3	21	20 12.8
835	6.1	26	2 3.0	698	5.8	12	18 57.3	1557	5.2	21	22 26.8
837	6.5	26	3 45.6	834	5.7	15	20 34.7	105	4.5	25	2 5.5
872	5.2	26	23 16.9	835	6.1	15	21 4.6	200	6.4	27	1 26.8
880	6.2	27	2 10.8	837	6.5	15	22 49.8	259	6.1	27	20 47.4
1366	6.2	April 4	2 21.6	872	5.2	16	18 50.5	288	4.2	28	2 15.9
200	6.4	12	4 54.7	880	6.2	16	21 48.5	291	5.4	28	2 39.8
345	5.5	13	20 52.5	1148	6.2	21	20 30.0	372	5.4	29	2 52.6
567	5.9	16	22 2.8	1366	6.2	24	23 37.9	529	5.5	31	4 53.8
575	6.1	17	1 16.8	1430	6.0	26	1 47.3	827	6.1	Sept. 5	18 24.2
632	6.1	17	19 51.4	1588	6.3	29	2 11.2	828	6.5	5	18 36.7
676	3.6	18	19 24.3	33	5.4	30	2 38.6	1027	5.7	9	17 18.8
687	6.1	19	2 3.2	181	6.5	Juli 3	1 37.6	1034	5.8	9	18 33.3
776	5.2	21	1 59.6	265	5.2	4	8 1.2	1160	5.7	11	20 14.6
819	2.9	21	23 35.7	916	4.5	14	20 49.4	1366	6.2	14	19 24.8

*) Konjunktion am Tage; westl. Stundenwinkel $2^h 50^m.3$

II. Konjunktionszeiten der in Mitteleuropa sichtbaren Sternbedeckungen

Nr.	Größe	Konjunktion in Rektaszension (Welt-Zeit)		Nr.	Größe	Konjunktion in Rektaszension (Welt-Zeit)		Nr.	Größe	Konjunktion in Rektaszension (Welt-Zeit)	
		1929	h m			1929	h m			1929	h m
1426	5.3	Sept. 15	19 52.6	330	6.3	Okt. 22	1 38.1	547	6.2	Nov. 21	5 51.5
1430	6.0	15	21 22.2	333	5.6	22	2 21.6	656	6.5	22	23 8.6
1438	5.7	16	1 4.9	385	5.1	22	18 10.4	841	4.4	27	2 31.2
1550	6.3	18	3 19.7	492	5.6	24	4 26.3	1366	6.2	Dez. 5	19 8.6
1588	6.3	18	20 50.2	502	6.5	24	6 34.5	1467	6.4	7	15 31.6
33	5.4	19	21 5.3	542	6.1	24	23 20.4	1522	4.4	8	16 23.6
184	6.0	22	22 20.6	547	6.2	24	23 39.3	1577	6.5	9	16 59.4
246	4.5	23	22 52.1	632	6.1	26	4 31.5	1588	6.3	9	23 58.2
248	6.1	23	23 8.0	676	3.6	27	3 40.4	162	5.8	13	15 45.7
259	6.1	24	2 14.1	819	2.9	30	5 58.2	170	6.4	13	19 33.3
330	6.3	24	19 39.9	Venus*)	-3.4	30	11 39.4	184	6.0	14	1 42.0
333	5.6	24	20 24.3	1053	4.9	Nov. 3	17 8.8	215	6.1	14	17 3.0
492	5.6	26	23 5.5	1178	4.7	5	17 33.6	246	4.5	15	1 4.8
502	6.5	27	1 14.0	1321	4.8	7	18 17.4	248	6.1	15	1 19.8
567	5.9	28	1 35.6	1324	4.9	7	19 44.4	259	6.1	15	4 15.6
575	6.1	28	4 45.5	1388	6.2	8	21 19.5	321	6.2	15	15 48.0
687	6.1	30	3 56.5	1448	6.1	9	22 3.5	330	6.3	15	20 38.0
1202	6.1	Okt. 9	15 41.4	1550	6.3	11	21 10.4	333	5.6	15	21 19.5
1289	5.9	10	19 52.7	1556	4.6	11	22 52.2	407	4.7	16	18 50.4
1459	6.1	13	17 44.0	1557	5.2	11	23 25.3	479	6.2	17	16 13.4
1467	6.4	13	22 58.4	1588	6.3	12	14 55.3	492	5.6	17	20 39.2
1519	5.6	14	22 2.6	33	5.4	13	15 16.3	502	6.5	17	22 39.7
1522	4.4	14	23 0.5	105	4.5	15	1 50.9	567	5.9	18	21 39.7
1577	6.5	15	22 40.7	162	5.8	16	4 54.5	575	6.1	19	0 40.5
18	6.3	16	23 51.8	184	6.0	16	14 46.6	577	5.7	19	1 45.9
105	4.5	18	15 59.6	200	6.4	16	22 59.9	632	6.1	19	18 2.1
162	5.8	19	19 19.4	215	6.1	17	6 6.1	656	6.5	20	6 34.0
170	6.4	19	23 8.7	259	6.1	17	17 21.9	687	6.1	20	22 30.2
184	6.0	20	5 21.7	288	4.2	17	22 34.6	698	5.8	21	3 4.9
215	6.1	20	21 1.4	291	5.4	17	22 57.4	786	6.2	23	1 24.5
246	4.5	21	5 17.6	314	6.0	18	2 28.2	827	6.1	23	23 30.0
248	6.1	21	5 33.1	321	6.2	18	5 1.5	828	6.5	23	23 43.0
314	6.0	21	17 57.0	385	5.1	19	1 57.0	975	6.2	27	7 1.6
321	6.2	21	20 34.9	542	6.1	21	5 33.1	1053	4.9	28	6 46.6

*) Konjunktion am Tage; westl. Stundenwinkel 1h 23.3m

0h Welt-Zeit	Mondbewegung			Lage des Mondäquators gegen den Erdäquator							
	☊	$L_{☾}$	$M_{☾}$	i		Δ		☊′		Δ − ☋	
1929	°	°	°	°		°		°		°	
Jan. −7	58.6927	56.0079	342.52	22.685	13	241.831	545	356.589	18	3.139	17
+3	58.1631	187.7719	113.17	22.672	12	241.286	546	356.607	18	3.122	16
13	57.6336	319.5359	243.82	22.660	12	240.740	546	356.625	18	3.106	18
23	57.1040	91.2999	14.47	22.648	13	240.194	547	356.643	18	3.088	16
Febr. 2	56.5745	223.0638	145.12	22.635	12	239.647	547	356.661	19	3.072	17
12	56.0450	354.8278	275.77	22.623	12	239.100	547	356.680	19	3.055	17
22	55.5154	126.5918	46.42	22.611	12	238.553	547	356.699	20	3.038	18
März 4	54.9859	258.3557	177.07	22.599	12	238.006	548	356.719	19	3.020	18
14	54.4564	30.1197	307.72	22.587	12	237.458	548	356.738	20	3.002	18
24	53.9268	161.8836	78.37	22.575	12	236.910	548	356.758	21	2.984	19
April 3	53.3973	293.6476	209.02	22.563	12	236.362	548	356.779	21	2.965	19
13	52.8677	65.4116	339.67	22.551	12	235.814	549	356.800	21	2.946	19
23	52.3382	197.1756	110.32	22.539	11	235.265	549	356.821	21	2.927	19
Mai 3	51.8087	328.9395	240.97	22.528	12	234.716	549	356.842	22	2.908	20
13	51.2791	100.7035	11.62	22.516	11	234.167	550	356.864	22	2.888	20
23	50.7496	232.4675	142.27	22.505	12	233.617	550	356.886	22	2.868	21
Juni 2	50.2200	4.2314	272.92	22.493	11	233.067	550	356.908	22	2.847	20
12	49.6905	135.9954	43.57	22.482	11	232.517	550	356.930	23	2.827	21
22	49.1610	267.7594	174.22	22.471	12	231.967	551	356.953	23	2.806	21
Juli 2	48.6314	39.5233	304.87	22.459	11	231.416	551	356.976	23	2.785	22
12	48.1019	171.2873	75.52	22.448	11	230.865	551	356.999	24	2.763	21
22	47.5724	303.0513	206.17	22.437	11	230.314	551	357.023	24	2.742	22
Aug. 1	47.0428	74.8152	336.82	22.426	10	229.763	552	357.047	24	2.720	22
11	46.5133	206.5792	107.47	22.416	11	229.211	552	357.071	25	2.698	23
21	45.9837	338.3432	238.12	22.405	11	228.659	552	357.096	24	2.675	23
31	45.4542	110.1071	8.77	22.394	10	228.107	553	357.120	26	2.652	23
Sept. 10	44.9246	241.8711	139.42	22.384	10	227.554	553	357.146	25	2.629	23
20	44.3951	13.6351	270.07	22.374	11	227.001	553	357.171	25	2.606	23
30	43.8656	145.3990	40.72	22.363	10	226.448	553	357.196	26	2.583	24
Okt. 10	43.3360	277.1630	171.37	22.353	11	225.895	553	357.222	26	2.559	24
20	42.8065	48.9270	302.02	22.342	10	225.342	554	357.248	27	2.535	24
30	42.2770	180.6909	72.67	22.332	10	224.788	554	357.275	26	2.511	25
Nov. 9	41.7474	312.4549	203.32	22.322	9	224.234	555	357.301	27	2.486	25
19	41.2179	84.2189	333.97	22.313	10	223.679	554	357.328	28	2.461	25
29	40.6883	215.9828	104.62	22.303	10	223.125	555	357.356	27	2.436	25
Dez. 9	40.1588	347.7468	235.27	22.293	9	222.570	555	357.383	28	2.411	25
19	39.6293	119.5108	5.92	22.284	10	222.015	555	357.411	28	2.386	26
29	39.0997	251.2747	136.57	22.274	9	221.460	556	357.439	29	2.360	26
39	38.5702	23.0387	267.22	22.265		220.904		357.468		2.334	

Mondkrater Mösting A. 1929

Tag	0^h Welt-Zeit								
	$\alpha_☾ - \alpha_k$			$\delta_☾ - \delta_k$			$\log \sin p_k$		
1929	s	s	s	"	"	"			
Jan. 0	−14.69	+0.40	+0.59	+25.4	+10.4	− 2.2	8.23030	−730	− 9
1	−14.29	+0.79	+0.39	+35.8	+ 7.6	− 2.8	8.22300	−681	+ 49
2	−13.50	+1.07	+0.28	+43.4	+ 5.6	− 2.0	8.21619	−595	+ 86
3	−12.43	+1.23	+0.16	+49.0	+ 4.7	− 0.9	8.21024	−484	+111
4	−11.20			+53.7			8.20540		
Jan. 19	− 1.86	−0.06		+97.5	−26.0		8.23427	+481	
20	− 1.92	−0.58	−0.52	+71.5	−28.4	− 2.4	8.23908	+425	− 56
21	− 2.50	−1.29	−0.71	+43.1	−26.9	+ 1.5	8.24333	+323	−102
22	− 3.79	−2.00	−0.71	+16.2	−20.3	+ 6.6	8.24656	+178	−145
23	− 5.79	−2.40	−0.40	− 4.1	− 9.7	+10.6	8.24834	− 3	−181
24	− 8.19	−2.26	+0.14	−13.8	+ 1.8	+11.5	8.24831	−195	−192
25	−10.45	−1.68	+0.58	−12.0	+10.2	+ 8.4	8.24636	−381	−186
26	−12.13	−0.93	+0.75	− 1.8	+14.1	+ 3.9	8.24255	−530	−149
27	−13.06	−0.25	+0.68	+12.3	+14.3	+ 0.2	8.23725	−633	−103
28	−13.31	+0.27	+0.52	+26.6	+12.1	− 2.2	8.23092	−676	− 43
29	−13.04	+0.65	+0.38	+38.7	+ 9.5	− 2.6	8.22416	−661	+ 15
30	−12.39	+0.93	+0.28	+48.2	+ 7.4	− 2.1	8.21755	−601	+ 60
31	−11.46	+1.12	+0.19	+55.6	+ 6.2	− 1.2	8.21154	−504	+ 97
Febr. 1	−10.34	+1.23	+0.11	+61.8	+ 6.4	+ 0.2	8.20650	−381	+123
2	− 9.11			+68.2			8.20269		
Febr. 17	− 3.16	−0.66		+42.1	−24.5		8.23698	+234	
18	− 3.82	−1.22	−0.56	+17.6	−20.3	+ 4.2	8.23932	+169	− 65
19	− 5.04	−1.69	−0.47	− 2.7	−12.7	+ 7.6	8.24101	+ 81	− 88
20	− 6.73	−1.83	−0.14	−15.4	− 3.3	+ 9.4	8.24182	− 27	−108
21	− 8.56	−1.58	+0.25	−18.7	+ 5.6	+ 8.9	8.24155	−155	−128
22	−10.14	−1.09	+0.49	−13.1	+11.7	+ 6.1	8.24000	−286	−131
23	−11.23	−0.55	+0.54	− 1.4	+14.4	+ 2.7	8.23714	−404	−118
24	−11.78	−0.07	+0.48	+13.0	+14.6	+ 0.2	8.23310	−500	− 96
25	−11.85	+0.31	+0.38	+27.6	+13.0	− 1.6	8.22810	−554	− 54
26	−11.54	+0.61	+0.30	+40.6	+11.0	− 2.0	8.22256	−568	− 14
27	−10.93	+0.84	+0.23	+51.6	+ 9.2	− 1.8	8.21688	−536	+ 32
28	−10.09	+1.01	+0.17	+60.8	+ 8.3	− 0.9	8.21152	−465	+ 71
März 1	− 9.08	+1.11	+0.10	+69.1	+ 8.3	0.0	8.20687	−362	+103
2	− 7.97	+1.13	+0.02	+77.4	+ 9.1	+ 0.8	8.20325	−237	+125
3	− 6.84	+1.05	−0.08	+86.5	+10.4	+ 1.3	8.20088	−100	+137
4	− 5.79			+96.9			8.19988		

Tag	0h Welt-Zeit								
	$\alpha_{☾} - \alpha_k$			$\delta_{☾} - \delta_k$			log sin p_k		
1929									
März 19	− 7.56s	−1.39s		− 16.0″	− 4.0″		8.23793	−106	
20	− 8.95	−1.17	+0.22s	− 20.0	+ 3.6	+7.6″	8.23687	−164	− 58
21	−10.12	−0.79	+0.38	− 16.4	+ 9.2	+5.6	8.23523	−224	− 60
22	−10.91	−0.36	+0.43	− 7.2	+12.4	+3.2	8.23299	−288	− 64
23	−11.27	+0.01	+0.37	+ 5.2	+13.7	+1.3	8.23011	−350	− 62
24	−11.26	+0.31	+0.30	+ 18.9	+13.5	−0.2	8.22661	−403	− 53
25	−10.95	+0.55	+0.24	+ 32.4	+12.5	−1.0	8.22258	−438	− 35
26	−10.40	+0.72	+0.17	+ 44.9	+11.3	−1.2	8.21820	−450	− 12
27	− 9.68	+0.87	+0.15	+ 56.2	+10.4	−0.9	8.21370	−430	+ 20
28	− 8.81	+0.97	+0.10	+ 66.6	+ 9.8	−0.6	8.20940	−381	+ 49
29	− 7.84	+1.01	+0.04	+ 76.4	+10.0	+0.2	8.20559	−303	+ 78
30	− 6.83	+1.00	−0.01	+ 86.4	+10.7	+0.7	8.20256	−197	+106
31	− 5.83	+0.90	−0.10	+ 97.1	+11.5	+0.8	8.20059	− 74	+123
April 1	− 4.93	+0.72	−0.18	+108.6	+12.0	+0.5	8.19985	+ 62	+136
2	− 4.21			+120.6			8.20047		
April 17	−11.44	−0.62		− 15.2	+ 9.3		8.23499	−350	
18	−12.06	−0.14	+0.48	− 5.9	+11.8	+2.5	8.23149	−368	− 18
19	−12.20	+0.25	+0.39	+ 5.9	+12.5	+0.7	8.22781	−375	− 7
20	−11.95	+0.51	+0.26	+ 18.4	+12.2	−0.3	8.22406	−378	− 3
21	−11.44	+0.70	+0.19	+ 30.6	+11.6	−0.6	8.22028	−378	0
22	−10.74	+0.82	+0.12	+ 42.2	+11.1	−0.5	8.21650	−374	+ 4
23	− 9.92	+0.91	+0.09	+ 53.3	+10.5	−0.6	8.21276	−358	+ 16
24	− 9.01	+0.97	+0.06	+ 63.8	+10.4	−0.1	8.20918	−330	+ 28
25	− 8.04	+0.98	+0.01	+ 74.2	+10.5	+0.1	8.20588	−287	+ 43
26	− 7.06	+0.96	−0.02	+ 84.7	+10.8	+0.3	8.20301	−222	+ 65
27	− 6.10	+0.89	−0.07	+ 95.5	+11.4	+0.6	8.20079	−136	+ 86
28	− 5.21	+0.77	−0.12	+106.9	+11.8	+0.4	8.19943	− 33	+103
29	− 4.44	+0.62	−0.15	+118.7	+11.7	−0.1	8.19910	+ 85	+118
30	− 3.82	+0.49	−0.13	+130.4	+10.8	−0.9	8.19995	+215	+130
Mai 1	− 3.33	+0.38	−0.11	+141.2	+ 8.8	−2.0	8.20210	+346	+131
2	− 2.95			+150.0			8.20556		
Mai 17	−13.34	+0.59		+ 23.1	+12.1		8.22550	−500	
18	−12.75	+0.82	+0.23	+ 35.2	+10.8	−1.3	8.22050	−461	+ 39
19	−11.93	+0.95	+0.13	+ 46.0	+ 9.8	−1.0	8.21589	−413	+ 48
20	−10.98	+1.02	+0.07	+ 55.8	+ 9.2	−0.6	8.21176	−364	+ 49
21	− 9.96	+1.05	+0.03	+ 65.0	+ 9.2	0.0	8.20812	−314	+ 50
22	− 8.91	+1.04	−0.01	+ 74.2	+ 9.5	+0.3	8.20498	−261	+ 53
23	− 7.87	+0.99	−0.05	+ 83.7	+10.0	+0.5	8.20237	−207	+ 54
24	− 6.88		−0.09	+ 93.7		+0.6	8.20030		+ 65

Mondkrater Mösting A. 1929

Tag		$\alpha_{☾} - \alpha_k$			$\delta_{☾} - \delta_k$			log sin p_k		
		0h Welt-Zeit								
1929		s	s	s	″	″	″			
Mai	24	− 6.88	+0.90	−0.09	+ 93.7	+10.6	+0.6	8.20030	−142	+ 65
	25	− 5.98	+0.79	−0.11	+104.3	+10.9	+0.3	8.19888	− 70	+ 72
	26	− 5.19	+0.67	−0.12	+115.2	+10.9	0.0	8.19818	+ 16	+ 86
	27	− 4.52	+0.58	−0.09	+126.1	+10.2	−0.7	8.19834	+114	+ 98
	28	− 3.94	+0.53	−0.05	+136.3	+ 8.9	−1.3	8.19948	+222	+108
	29	− 3.41	+0.51	−0.02	+145.2	+ 6.5	−2.4	8.20170	+339	+117
	30	− 2.90	+0.52	+0.01	+151.7	+ 3.0	−3.5	8.20509	+455	+116
	31	− 2.38			+154.7			8.20964		
Juni	16	−12.34	+1.02		+ 62.1	+ 8.3		8.21396	−475	
	17	−11.32	+1.08	+0.06	+ 70.4	+ 7.7	−0.6	8.20921	−391	+ 84
	18	−10.24	+1.08	0.00	+ 78.1	+ 7.7	0.0	8.20530	−305	+ 86
	19	− 9.16	+1.04	−0.04	+ 85.8	+ 8.2	+0.5	8.20225	−224	+ 81
	20	− 8.12	+0.94	−0.10	+ 94.0	+ 8.8	+0.6	8.20001	−148	+ 76
	21	− 7.18	+0.83	−0.11	+102.8	+ 9.3	+0.5	8.19853	− 75	+ 73
	22	− 6.35	+0.69	−0.14	+112.1	+ 9.4	+0.1	8.19778	− 3	+ 72
	23	− 5.66	+0.61	−0.08	+121.5	+ 8.9	−0.5	8.19775	+ 71	+ 74
	24	− 5.05	+0.57	−0.04	+130.4	+ 7.7	−1.2	8.19846	+150	+ 79
	25	− 4.48	+0.59	+0.02	+138.1	+ 5.8	−1.9	8.19996	+235	+ 85
	26	− 3.89	+0.65	+0.06	+143.9	+ 3.3	−2.5	8.20231	+325	+ 90
	27	− 3.24	+0.72	+0.07	+147.2	− 0.3	−3.6	8.20556	+420	+ 95
	28	− 2.52	+0.76	+0.04	+146.9	− 4.7	−4.4	8.20976	+513	+ 93
	29	− 1.76	+0.74	−0.02	+142.2	−10.3	−5.6	8.21489	+594	+ 81
	30	− 1.02	+0.64	−0.10	+131.9	−16.6	−6.3	8.22083	+655	+ 61
Juli	1	− 0.38			+115.3			8.22738		
Juli	15	−11.43	+1.01		+ 84.0	+ 6.7		8.20861	−425	
	16	−10.42	+1.00	−0.01	+ 90.7	+ 6.5	−0.2	8.20436	−314	+111
	17	− 9.42	+0.96	−0.04	+ 97.2	+ 6.9	+0.4	8.20122	−205	+109
	18	− 8.46	+0.84	−0.12	+104.1	+ 7.3	+0.4	8.19917	−105	+100
	19	− 7.62	+0.73	−0.11	+111.4	+ 7.5	+0.2	8.19812	− 16	+ 89
	20	− 6.89	+0.61	−0.12	+118.9	+ 7.1	−0.4	8.19796	+ 64	+ 80
	21	− 6.28	+0.57	−0.04	+126.0	+ 6.2	−0.9	8.19860	+135	+ 71
	22	− 5.71	+0.58	+0.01	+132.2	+ 4.4	−1.8	8.19995	+200	+ 65
	23	− 5.13	+0.64	+0.06	+136.6	+ 2.1	−2.3	8.20195	+262	+ 62
	24	− 4.49	+0.73	+0.09	+138.7	− 0.9	−3.0	8.20457	+323	+ 61
	25	− 3.76	+0.81	+0.08	+137.8	− 4.6	−3.7	8.20780	+384	+ 61
	26	− 2.95	+0.87	+0.06	+133.2	− 8.8	−4.2	8.21164	+446	+ 62
	27	− 2.08	+0.86	−0.01	+124.4	−13.9	−5.1	8.21610	+501	+ 55
	28	− 1.22	+0.74	−0.12	+110.5	−19.2	−5.3	8.22111	+548	+ 47
	29	− 0.48			+ 91.3			8.22659		

Tag	0h Welt-Zeit								
	$\alpha_{☾} - \alpha_k$			$\delta_{☾} - \delta_k$			log sin p_k		
1929									
Aug. 13	−10.27s	+0.86s		+101.7″	+5.8″		8.20461	−320	
14	−9.41	+0.82	−0.04s	+107.5	+5.8	0.0″	8.20141	−194	+126
15	−8.59	+0.74	−0.08	+113.3	+5.9	+0.1	8.19947	−71	+123
16	−7.85	+0.64	−0.10	+119.2	+5.7	−0.2	8.19876	+40	+111
17	−7.21	+0.57	−0.07	+124.9	+4.9	−0.8	8.19916	+135	+95
18	−6.64	+0.55	−0.02	+129.8	+3.3	−1.6	8.20051	+210	+75
19	−6.09	+0.58	+0.03	+133.1	+1.0	−2.3	8.20261	+274	+64
20	−5.51	+0.64	+0.06	+134.1	−2.0	−3.0	8.20535	+316	+42
21	−4.87	+0.71	+0.07	+132.1	−5.6	−3.6	8.20851	+350	+34
22	−4.16	+0.78	+0.07	+126.5	−9.6	−4.0	8.21201	+374	+24
23	−3.38	+0.80	+0.02	+116.9	−13.9	−4.3	8.21575	+392	+18
24	−2.58	+0.76	−0.04	+103.0	−18.2	−4.3	8.21967	+406	+14
25	−1.82	+0.60	−0.16	+84.8	−22.3	−4.1	8.22373	+415	+9
26	−1.22	+0.27	−0.33	+62.5	−25.1	−2.8	8.22788	+416	+1
27	−0.95			+37.4			8.23204		
Sept. 12	−8.31	+0.65		+121.6	+4.9		8.20007	−39	
13	−7.66	+0.60	−0.05	+126.5	+4.4	−0.5	8.19968	+87	+126
14	−7.06	+0.58	−0.02	+130.9	+3.1	−1.3	8.20055	+203	+116
15	−6.48	+0.57	−0.01	+134.0	+1.0	−2.1	8.20258	+297	+94
16	−5.91	+0.59	+0.02	+135.0	−2.0	−3.0	8.20555	+366	+69
17	−5.32	+0.61	+0.02	+133.0	−5.9	−3.9	8.20921	+408	+42
18	−4.71	+0.63	+0.02	+127.1	−10.3	−4.4	8.21329	+421	+13
19	−4.08	+0.62	−0.01	+116.8	−15.0	−4.7	8.21750	+412	−9
20	−3.46	+0.56	−0.06	+101.8	−19.3	−4.3	8.22162	+386	−26
21	−2.90	+0.42	−0.14	+82.5	−22.9	−3.6	8.22548	+346	−40
22	−2.48	+0.15	−0.27	+59.6	−25.2	−2.3	8.22894	+301	−45
23	−2.33	−0.27	−0.42	+34.4	−25.0	+0.2	8.23195	+254	−47
24	−2.60	−0.79	−0.52	+9.4	−22.1	+2.9	8.23449	+207	−47
25	−3.39	−1.60	−0.81	−12.7	−15.6	+6.5	8.23656	+160	−47
26	−4.99			−28.3			8.23816		
Okt. 11	−7.09	+0.64		+132.8	+3.5		8.19997	+127	
12	−6.45	+0.66	+0.02	+136.3	+2.1	−1.4	8.20124	+256	+129
13	−5.79	+0.67	+0.01	+138.4	−0.6	−2.7	8.20380	+372	+116
14	−5.12	+0.65	−0.02	+137.8	−4.1	−3.5	8.20752	+462	+90
15	−4.47	+0.63	−0.02	+133.7	−8.8	−4.7	8.21214	+517	+55
16	−3.84	+0.56	−0.07	+124.9	−14.3	−5.5	8.21731	+534	+17
17	−3.28	+0.44	−0.12	+110.6	−19.6	−5.3	8.22265	+510	−24
18	−2.84		−0.21	+91.0		−4.8	8.22775		−61

Tag	0h Welt-Zeit								
	$\alpha_☾ - \alpha_k$			$\delta_☾ - \delta_k$			log sin p_k		
1929	s	s	s	″	″	″			
Okt. 18	− 2.84	+0.23	−0.21	+ 91.0	−24.4	− 4.8	8.22775	+449	− 61
19	− 2.61	−0.10	−0.33	+ 66.6	−27.3	− 2.9	8.23224	+359	− 90
20	− 2.71	−0.55	−0.45	+ 39.3	−27.3	0.0	8.23583	+254	−105
21	− 3.26	−1.08	−0.53	+ 12.0	−23.6	+ 3.7	8.23837	+141	−113
22	− 4.34	−1.55	−0.47	− 11.6	−16.3	+ 7.3	8.23978	+ 39	−102
23	− 5.89	−1.76	−0.21	− 27.9	− 6.5	+ 9.8	8.24017	− 50	− 89
24	− 7.65	−1.58	+0.18	− 34.4	+ 3.2	+ 9.7	8.23967	−121	− 71
25	− 9.23			− 31.2			8.23846		
Nov. 10	− 4.84	+0.84		+140.6	− 1.4		8.20363	+414	
11	− 4.00	+0.83	−0.01	+139.2	− 5.4	− 4.0	8.20777	+524	+110
12	− 3.17	+0.76	−0.07	+133.8	−10.6	− 5.2	8.21301	+607	+ 83
13	− 2.41	+0.62	−0.14	+123.2	−16.7	− 6.1	8.21908	+647	+ 40
14	− 1.79	+0.37	−0.25	+106.5	−22.9	− 6.2	8.22555	+638	− 9
15	− 1.42	−0.02	−0.39	+ 83.6	−28.1	− 5.2	8.23193	+573	− 65
16	− 1.44	−0.59	−0.57	+ 55.5	−30.4	− 2.3	8.23766	+458	−115
17	− 2.03	−1.31	−0.72	+ 25.1	−28.4	+ 2.0	8.24224	+305	−153
18	− 3.34	−2.00	−0.69	− 3.3	−21.0	+ 7.4	8.24529	+129	−176
19	− 5.34	−2.36	−0.36	− 24.3	− 9.5	+11.5	8.24658	− 43	−172
20	− 7.70	−2.20	+0.16	− 33.8	+ 2.9	+12.4	8.24615	−194	−151
21	− 9.90	−1.58	+0.62	− 30.9	+12.5	+ 9.6	8.24421	−311	−117
22	−11.48	−0.92	+0.66	− 18.4	+17.7	+ 5.2	8.24110	−389	− 78
23	−12.40			− 0.7			8.23721		
Dez. 10	− 1.91	+1.00		+128.8	−11.8		8.21201	+633	
11	− 0.91	+0.82	−0.18	+117.0	−17.9	− 6.1	8.21834	+705	+ 72
12	− 0.09	+0.50	−0.32	+ 99.1	−24.3	− 6.4	8.22539	+727	+ 22
13	+ 0.41	−0.05	−0.55	+ 74.8	−29.6	− 5.3	8.23266	+693	− 34
14	+ 0.36	−0.85	−0.80	+ 45.2	−31.7	− 2.1	8.23959	+593	−100
15	− 0.49	−1.85	−1.00	+ 13.5	−28.0	+ 3.7	8.24552	+434	−159
16	− 2.34	−2.71	−0.86	− 14.5	−17.7	+10.3	8.24986	+226	−208
17	− 5.05	−3.01	−0.30	− 32.2	− 3.0	+14.7	8.25212	0	−226
18	− 8.06	−2.58	+0.43	− 35.2	+10.9	+13.9	8.25212	−218	−218
19	−10.64	−1.73	+0.85	− 24.3	+20.1	+ 9.2	8.24994	−399	−181
20	−12.37	−0.85	+0.88	− 4.2	+23.4	+ 3.3	8.24595	−527	−128
21	−13.22	−0.16	+0.69	+ 19.2	+22.5	− 0.9	8.24068	−599	− 72
22	−13.38	+0.27	+0.43	+ 41.7	+19.5	− 3.0	8.23469	−617	− 18
23	−13.11	+0.52	+0.25	+ 61.2	+16.0	− 3.5	8.22852	−598	+ 19
24	−12.59			+ 77.2			8.22254		

Verfinsterungen: E. Eintritte, A. Austritte (in Welt-Zeit)

TRABANT I

		h	m	
Jan.	1	16	5.7	A.
	3	10	34.6	A.
	5	5	3.5	A.
	6	23	32.4	A.
	8	18	1.3	A.
	10	12	30.3	A.
	12	6	59.2	A.
	14	1	28.2	A.
	15	19	57.0	A.
	17	14	26.0	A.
	19	8	54.8	A.
	21	3	23.8	A.
	22	21	52.7	A.
	24	16	21.6	A.
	26	10	50.5	A.
	28	5	19.5	A.
	29	23	48.3	A.
	31	18	17.2	A.
Febr.	2	12	46.1	A.
	4	7	15.0	A.
	6	1	43.9	A.
	7	20	12.8	A.
	9	14	41.7	A.
	11	9	10.6	A.
	13	3	39.5	A.
	14	22	8.3	A.
	16	16	37.2	A.
	18	11	6.1	A.
	20	5	34.9	A.
	22	0	3.8	A.
	23	18	32.6	A.
	25	13	1.5	A.
	27	7	30.2	A.
März	1	1	59.1	A.
	2	20	28.0	A.
	4	14	56.8	A.
	6	9	25.6	A.
	8	3	54.4	A.
	9	22	23.2	A.
	11	16	52.1	A.
	13	11	20.9	A.
	15	5	49.7	A.
	17	0	18.4	A.
	18	18	47.2	A.
	20	13	16.0	A.
	22	7	44.8	A.
	24	2	13.5	A.
	25	20	42.3	A.
	27	15	11.1	A.
	29	9	39.8	A.

TRABANT I

		h	m	
März	31	4	8.6	A.
April	1	22	37.4	A.
	3	17	6.1	A.
	5	11	34.8	A.
	7	6	3.5	A.
	9	0	32.2	A.
	10	19	1.0	A.
	12	13	29.7	A.
	14	7	58.3	A.
	16	2	27.1	A.
	17	20	55.7	A.
	19	15	24.4	A.
	21	9	53.1	A.
	23	4	21.8	A.
	24	22	50.5	A.
	26	17	19.1	A.
	28	11	47.8	A.
	30	6	16.4	A.
Juni	15	4	30.2	E.
	16	22	58.7	E.
	18	17	27.2	E.
	20	11	55.7	E.
	22	6	24.2	E.
	24	0	52.7	E.
	25	19	21.2	E.
	27	13	49.8	E.
	29	8	18.2	E.
Juli	1	2	46.7	E.
	2	21	15.2	E.
	4	15	43.7	E.
	6	10	12.2	E.
	8	4	40.7	E.
	9	23	9.1	E.
	11	17	37.6	E.
	13	12	6.1	E.
	15	6	34.6	E.
	17	1	3.0	E.
	18	19	31.5	E.
	20	14	0.0	E.
	22	8	28.4	E.
	24	2	56.9	E.
	25	21	25.4	E.
	27	15	53.8	E.
	29	10	22.3	E.
	31	4	50.7	E.
Aug.	1	23	19.2	E.
	3	17	47.6	E.
	5	12	16.1	E.
	7	6	44.5	E.
	9	1	13.0	E.

TRABANT I

		h	m	
Aug.	10	19	41.4	E.
	12	14	9.9	E.
	14	8	38.3	E.
	16	3	6.8	E.
	17	21	35.2	E.
	19	16	3.7	E.
	21	10	32.1	E.
	23	5	0.6	E.
	24	23	29.1	E.
	26	17	57.5	E.
	28	12	25.9	E.
	30	6	54.4	E.
Sept.	1	1	22.8	E.
	2	19	51.3	E.
	4	14	19.7	E.
	6	8	48.2	E.
	8	3	16.7	E.
	9	21	45.1	E.
	11	16	13.6	E.
	13	10	42.1	E.
	15	5	10.5	E.
	16	23	39.0	E.
	18	18	7.4	E.
	20	12	36.0	E.
	22	7	4.4	E.
	24	1	33.0	E.
	25	20	1.4	E.
	27	14	29.9	E.
	29	8	58.3	E.
Okt.	1	3	26.9	E.
	2	21	55.3	E.
	4	16	23.9	E.
	6	10	52.4	E.
	8	5	20.9	E.
	9	23	49.4	E.
	11	18	17.9	E.
	13	12	46.4	E.
	15	7	15.0	E.
	17	1	43.5	E.
	18	20	12.1	E.
	20	14	40.6	E.
	22	9	9.2	E.
	24	3	37.7	E.
	25	22	6.3	E.
	27	16	34.8	E.
	29	11	3.5	E.
	31	5	32.0	E.
Nov.	2	0	0.6	E.
	3	18	29.2	E.
	5	12	57.8	E.

TRABANT I

		h	m	
Nov.	7	7	26.4	E.
	9	1	55.1	E.
	10	20	23.7	E.
	12	14	52.4	E.
	14	9	20.9	E.
	16	3	49.7	E.
	17	22	18.3	E.
	19	16	47.0	E.
	21	11	15.6	E.
	23	5	44.4	E.
	25	0	13.0	E.
	26	18	41.8	E.
	28	13	10.4	E.
	30	7	39.2	E.
Dez.	2	2	7.9	E.
	3	20	36.7	E.
	3	22	48.4	A.
	5	17	17.1	A.
	7	11	45.9	A.
	9	6	14.6	A.
	11	0	43.5	A.
	12	19	12.2	A.
	14	13	41.1	A.
	16	8	9.9	A.
	18	2	38.7	A.
	19	21	7.5	A.
	21	15	36.4	A.
	23	10	5.2	A.
	25	4	34.1	A.
	26	23	2.9	A.
	28	17	31.8	A.
	30	12	0.6	A.

TRABANT II

		h	m	
Jan.	1	1	29.7	E.
	1	3	45.9	A.
	4	14	48.2	E.
	4	17	4.3	A.
	8	4	7.0	E.
	8	6	23.1	A.
	11	17	25.5	E.
	11	19	41.7	A.
	15	6	44.4	E.
	15	9	0.5	A.
	18	20	3.0	E.
	18	22	19.2	A.
	22	9	22.0	E.
	22	11	38.2	A.
	25	22	40.7	E.
	26	0	56.9	A.

Verfinsterungen: E. Eintritte, A. Austritte (in Welt-Zeit)

TRABANT II

	h	m	
Jan. 29	11	59.7	E.
29	14	16.0	A.
Febr. 2	1	18.4	E.
2	3	34.7	A.
5	14	37.6	E.
5	16	53.9	A.
9	3	56.4	E.
9	6	12.6	A.
12	17	15.6	E.
12	19	31.9	A.
16	6	34.4	E.
16	8	50.7	A.
19	19	53.7	E.
19	22	10.1	A.
23	9	12.4	E.
23	11	28.8	A.
26	22	31.9	E.
27	0	48.3	A.
März 2	14	7.1	A.
6	3	26.6	A.
9	16	45.4	A.
13	6	5.0	A.
16	19	23.9	A.
20	8	43.6	A.
23	22	2.3	A.
27	11	21.9	A.
31	0	40.7	A.
April 3	14	0.4	A.
7	3	19.2	A.
10	16	38.9	A.
14	5	57.6	A.
17	19	17.3	A.
21	8	36.0	A.
24	21	55.7	A.
28	11	14.4	A.
Juni 17	3	21.2	E.
20	16	40.2	E.
24	5	58.3	E.
27	19	17.2	E.
Juli 1	8	35.2	E.
4	21	54.0	E.
8	11	11.9	E.
12	0	30.6	E.
15	13	48.5	E.
19	3	7.0	E.
22	16	24.8	E.
26	5	43.2	E.
29	19	0.9	E.
Aug. 2	8	19.2	E.
2	10	39.2	A.

TRABANT II

	h	m	
Aug. 5	21	36.8	E.
5	23	57.0	A.
9	10	54.9	E.
9	13	15.2	A.
13	0	12.5	E.
13	2	33.0	A.
16	13	30.5	E.
16	15	51.0	A.
20	2	48.0	E.
20	5	8.7	A.
23	16	5.9	E.
23	18	26.6	A.
27	5	23.4	E.
27	7	44.2	A.
30	18	41.1	E.
30	21	2.0	A.
Sept. 3	7	58.5	E.
3	10	19.6	A.
6	21	16.1	E.
6	23	37.3	A.
10	10	33.5	E.
10	12	54.8	A.
13	23	51.0	E.
14	2	12.4	A.
17	13	8.3	E.
17	15	29.9	A.
21	2	25.7	E.
21	4	47.4	A.
24	15	42.9	E.
24	18	4.8	A.
28	5	0.2	E.
28	7	22.2	A.
Okt. 1	18	17.4	E.
1	20	39.6	A.
5	7	34.8	E.
5	9	57.0	A.
8	20	52.0	E.
12	10	9.4	E.
15	23	26.5	E.
19	12	43.7	E.
23	2	0.7	E.
26	15	17.8	E.
30	4	35.0	E.
Nov. 2	17	52.1	E.
6	7	9.3	E.
9	20	26.4	E.
13	9	43.6	E.
16	23	0.8	E.
20	12	18.0	E.
24	1	35.3	E.

TRABANT II

	h	m	
Nov. 27	14	52.6	E.
Dez. 1	4	9.8	E.
4	19	52.1	A.
8	9	9.6	A.
11	22	27.1	A.
15	11	44.7	A.
19	1	2.3	A.
22	14	20.0	A.
26	3	37.7	A.
29	16	55.4	A.

TRABANT III

	h	m	
Jan. 1	20	29.9	E.
1	22	20.7	A.
9	0	32.7	E.
9	2	23.4	A.
16	4	34.7	E.
16	6	25.3	A.
23	8	36.7	E.
23	10	27.2	A.
30	12	38.2	E.
30	14	28.8	A.
Febr. 6	16	39.9	E.
6	18	30.5	A.
13	20	42.0	E.
13	22	32.7	A.
21	0	44.0	E.
21	2	34.8	A.
28	4	46.4	E.
28	6	37.4	A.
März 7	8	48.0	E.
7	10	39.2	A.
14	12	49.3	E.
14	14	40.8	A.
21	16	50.3	E.
21	18	42.0	A.
28	20	51.3	E.
28	22	43.4	A.
April 5	0	52.7	E.
5	2	45.1	A.
12	4	54.0	E.
12	6	46.8	A.
19	10	48.9	A.
26	14	50.1	A.
Juni 15	16	59.2	E.
15	18	57.2	A.
22	20	58.9	E.
22	22	57.7	A.
30	0	58.4	E.
30	2	58.0	A.

TRABANT III

	h	m	
Juli 7	4	58.0	E.
7	6	58.3	A.
14	8	58.1	E.
14	10	59.1	A.
21	12	57.9	E.
21	14	59.8	A.
28	16	58.2	E.
28	19	1.0	A.
Aug. 4	20	57.5	E.
4	23	1.2	A.
12	0	56.8	E.
12	3	1.4	A.
19	4	55.8	E.
19	7	1.3	A.
26	8	55.0	E.
26	11	1.4	A.
Sept. 2	12	54.7	E.
2	15	2.1	A.
9	16	54.3	E.
9	19	2.6	A.
16	20	54.3	E.
16	23	3.7	A.
24	0	53.5	E.
24	3	3.9	A.
Okt. 1	4	52.6	E.
1	7	4.1	A.
8	8	51.5	E.
8	11	4.1	A.
15	12	50.8	E.
15	15	4.4	A.
22	16	50.7	E.
22	19	5.4	A.
29	20	50.6	E.
29	23	6.3	A.
Nov. 6	0	50.9	E.
6	3	7.8	A.
13	4	50.6	E.
20	8	50.2	E.
27	12	49.8	E.
Dez. 4	16	49.7	E.
4	19	11.2	A.
11	23	13.1	A.
19	3	14.8	A.
26	7	17.1	A.

TRABANT IV

wird nicht verfinstert.

0h Welt-Zeit		α	β	p_a	a	b	U′	B′	P′
1929		″	″	″	″	″	°	°	°
Jan.	−1	15.17	13.92	0.00	34.16	+15.41	93.990	+26.748	+1.877
	+3	15.19	13.95	0.00	34.22	15.42	94.125	26.749	1.941
	7	15.22	13.98	−0.01	34.29	15.44	94.260	26.749	2.005
	11	15.26	14.02	0.01	34.37	15.47	94.395	26.749	2.068
	15	15.30	14.06	0.01	34.47	15.50	94.530	26.750	2.131
	19	15.35	14.10	−0.01	34.58	+15.53	94.665	+26.750	+2.195
	23	15.40	14.15	0.01	34.70	15.57	94.800	26.749	2.258
	27	15.46	14.20	0.02	34.83	15.61	94.935	26.749	2.322
	31	15.53	14.26	0.02	34.98	15.66	95.070	26.748	2.385
Febr.	4	15.60	14.32	0.02	35.14	15.71	95.205	26.747	2.449
	8	15.68	14.39	−0.02	35.31	+15.77	95.340	+26.746	+2.512
	12	15.76	14.46	0.02	35.49	15.83	95.475	26.745	2.575
	16	15.84	14.53	0.03	35.68	15.90	95.610	26.744	2.638
	20	15.93	14.61	0.03	35.87	15.97	95.745	26.743	2.702
	24	16.02	14.69	0.03	36.07	16.05	95.880	26.741	2.765
	28	16.12	14.78	−0.03	36.28	+16.13	96.015	+26.740	+2.828
März	4	16.22	14.87	0.03	36.51	16.21	96.149	26.738	2.891
	8	16.32	14.97	0.04	36.75	16.30	96.284	26.737	2.955
	12	16.42	15.06	0.04	36.99	16.39	96.419	26.735	3.018
	16	16.53	15.16	0.04	37.24	16.49	96.554	26.734	3.081
	20	16.64	15.26	−0.04	37.48	+16.59	96.689	+26.732	+3.144
	24	16.75	15.36	0.04	37.73	16.69	96.824	26.730	3.207
	28	16.86	15.47	0.04	37.98	16.79	96.959	26.727	3.270
April	1	16.97	15.57	0.04	38.24	16.90	97.094	26.725	3.333
	5	17.09	15.68	0.04	38.49	17.01	97.228	26.722	3.397
	9	17.20	15.78	−0.04	38.75	+17.12	97.363	+26.720	+3.460
	13	17.31	15.88	0.04	39.00	17.23	97.498	26.717	3.523
	17	17.42	15.98	0.03	39.24	17.34	97.633	26.714	3.586
	21	17.53	16.08	0.03	39.49	17.45	97.768	26.711	3.649
	25	17.64	16.18	0.03	39.73	17.56	97.903	26.708	3.712
	29	17.74	16.28	−0.03	39.96	+17.67	98.037	+26.705	+3.775
Mai	3	17.84	16.37	0.02	40.18	17.77	98.172	26.701	3.838
	7	17.93	16.45	0.02	40.39	17.87	98.307	26.698	3.901
	11	18.02	16.53	0.02	40.58	17.97	98.441	26.694	3.964
	15	18.10	16.60	0.02	40.76	18.07	98.576	26.691	4.027
	19	18.17	16.67	−0.01	40.93	+18.16	98.711	+26.687	+4.090
	23	18.24	16.73	0.01	41.08	18.24	98.846	26.683	4.153
	27	18.30	16.78	0.01	41.21	18.31	98.981	26.679	4.216
	31	18.35	16.83	0.01	41.32	18.37	99.115	26.675	4.278
Juni	4	18.39	16.87	−0.01	41.41	18.43	99.250	26.670	4.341
	8	18.42	16.90	0.00	41.48	+18.48	99.384	+26.666	+4.404
	12	18.44	16.92	0.00	41.54	18.52	99.519	26.662	4.467
	16	18.45	16.93	0.00	41.57	18.55	99.653	26.658	4.529
	20	18.45	16.93	0.00	41.58	18.57	99.788	26.653	4.592
	24	18.44	16.92	0.00	41.56	18.58	99.923	26.648	4.655
	28	18.43	16.91	0.00	41.52	18.59	100.057	26.642	4.717
Juli	2	18.41	16.89	0.00	41.46	+18.58	100.192	+26.637	+4.780

Saturn und Saturnsring 1929

0h Welt-Zeit		α	β	p_a	a	b	U'	B'	P'
1929		"	"	"	"	"	°	°	°
Juli	2	18.41	16.89	0.00	41.46	+18.58	100.192	+26.637	+4.780
	6	18.37	16.86	+0.01	41.38	18.56	100.326	26.631	4.842
	10	18.32	16.82	0.01	41.28	18.53	100.461	26.625	4.905
	14	18.27	16.77	0.01	41.16	18.49	100.595	26.620	4.967
	18	18.21	16.72	0.01	41.02	18.45	100.730	26.614	5.030
	22	18.14	16.66	+0.01	40.86	+18.39	100.865	+26.608	+5.092
	26	18.06	16.59	0.02	40.69	18.33	100.999	26.602	5.155
	30	17.98	16.51	0.02	40.51	18.26	101.134	26.596	5.217
Aug.	3	17.89	16.43	0.02	40.31	18.18	101.268	26.590	5.279
	7	17.79	16.34	0.02	40.10	18.10	101.402	26.584	5.342
	11	17.70	16.25	+0.03	39.88	+18.01	101.537	+26.577	+5.404
	15	17.60	16.16	0.03	39.65	17.92	101.671	26.571	5.466
	19	17.50	16.06	0.03	39.41	17.82	101.806	26.565	5.528
	23	17.39	15.96	0.03	39.16	17.72	101.940	26.558	5.590
	27	17.28	15.86	0.04	38.91	17.61	102.074	26.551	5.652
	31	17.17	15.76	+0.04	38.66	+17.50	102.208	+26.543	+5.715
Sept.	4	17.06	15.66	0.04	38.41	17.39	102.343	26.536	5.777
	8	16.94	15.55	0.04	38.15	17.28	102.477	26.528	5.839
	12	16.83	15.45	0.04	37.90	17.17	102.611	26.521	5.901
	16	16.71	15.35	0.04	37.65	17.06	102.746	26.513	5.963
	20	16.60	15.25	+0.04	37.40	+16.95	102.880	+26.505	+6.025
	24	16.50	15.15	0.04	37.16	16.84	103.014	26.497	6.087
	28	16.39	15.05	0.04	36.92	16.73	103.148	26.489	6.149
Okt.	2	16.29	14.95	0.04	36.68	16.63	103.282	26.480	6.211
	6	16.19	14.86	0.03	36.45	16.53	103.416	26.472	6.272
	10	16.09	14.77	+0.03	36.23	+16.43	103.550	+26.464	+6.334
	14	15.99	14.68	0.03	36.02	16.33	103.685	26.455	6.396
	18	15.90	14.60	0.03	35.82	16.23	103.819	26.447	6.458
	22	15.81	14.52	0.03	35.62	16.14	103.953	26.439	6.519
	26	15.73	14.45	0.03	35.43	16.05	104.087	26.430	6.581
	30	15.65	14.37	+0.02	35.25	+15.96	104.221	+26.421	+6.643
Nov.	3	15.58	14.30	0.02	35.09	15.87	104.355	26.411	6.704
	7	15.51	14.24	0.02	34.94	15.79	104.489	26.402	6.766
	11	15.45	14.19	0.01	34.80	15.71	104.623	26.392	6.827
	15	15.39	14.13	0.01	34.67	15.63	104.756	26.383	6.889
	19	15.34	14.08	+0.01	34.55	+15.56	104.890	+26.373	+6.950
	23	15.29	14.04	0.01	34.44	15.50	105.024	26.364	7.012
	27	15.25	14.00	0.01	34.34	15.44	105.158	26.354	7.073
Dez.	1	15.21	13.96	0.01	34.26	15.38	105.292	26.344	7.135
	5	15.18	13.93	0.01	34.19	15.32	105.426	26.333	7.196
	9	15.16	13.90	+0.01	34.13	+15.27	105.559	+26.323	+7.257
	13	15.14	13.88	0.00	34.09	15.22	105.693	26.312	7.318
	17	15.12	13.87	0.00	34.06	15.18	105.827	26.302	7.379
	21	15.11	13.86	0.00	34.04	15.14	105.960	26.291	7.440
	25	15.10	13.85	0.00	34.03	15.11	106.094	26.281	7.501
	29	15.11	13.86	0.00	34.04	15.08	106.228	26.270	7.562
	33	15.12	13.87	0.00	34.06	+15.06	106.362	+26.259	+7.623

0h Welt-Zeit	U		B		P	
1929						
Jan. 1	137°.884	256	+26°.793	11	+5°.441	23
3	138.140	254	26.782	11	5.464	22
5	138.394	252	26.771	11	5.486	21
7	138.646	251	26.760	11	5.507	22
9	138.897	249	26.749	12	5.529	21
11	139.146	247	+26.737	12	+5.550	21
13	139.393	244	26.725	13	5.571	20
15	139.637	241	26.712	13	5.591	21
17	139.878	237	26.699	14	5.612	20
19	140.115	234	26.685	14	5.632	20
21	140.349	231	+26.671	15	+5.652	19
23	140.580	227	26.656	15	5.671	19
25	140.807	223	26.641	15	5.690	18
27	141.030	221	26.626	15	5.708	18
29	141.251	216	26.611	16	5.726	17
31	141.467	212	+26.595	15	+5.743	17
Febr. 2	141.679	207	26.580	16	5.760	17
4	141.886	203	26.564	15	5.777	16
6	142.089	198	26.549	15	5.793	16
8	142.287	194	26.534	15	5.809	15
10	142.481	188	+26.519	15	+5.824	15
12	142.669	184	26.504	15	5.839	14
14	142.853	178	26.489	15	5.853	14
16	143.031	173	26.474	15	5.867	14
18	143.204	167	26.459	15	5.881	13
20	143.371	162	+26.444	15	+5.894	12
22	143.533	156	26.429	14	5.906	12
24	143.689	150	26.415	15	5.918	11
26	143.839	144	26.400	14	5.929	11
28	143.983	138	26.386	13	5.940	10
März 2	144.121	132	+26.373	13	+5.950	10
4	144.253	125	26.360	13	5.960	10
6	144.378	119	26.347	12	5.970	9
8	144.497	113	26.335	13	5.979	9
10	144.610	106	26.322	12	5.988	8
12	144.716	99	+26.310	11	+5.996	7
14	144.815	92	26.299	11	6.003	6
16	144.907	85	26.288	10	6.009	6
18	144.992	78	26.278	9	6.015	5
20	145.070	71	26.269	8	6.020	5
22	145.141	63	+26.261	7	+6.025	5
24	145.204	57	26.254	7	6.030	4
26	145.261	50	26.247	7	6.034	3
28	145.311	42	26.240	6	6.037	3
30	145.353	35	26.234	5	6.040	3
April 1	145.388	27	26.229	5	6.043	2
3	145.415		+26.224		+6.045	

0h Welt-Zeit	U		B		P	
1929						
April 3	145°.415	20	+26°.224	4	+6°.045	1
5	145.435	13	26.220	3	6.046	1
7	145.448	6	26.217	2	6.047	1
9	145.454	2	26.215	1	6.048	0
11	145.452	9	26.214	1	6.048	1
13	145.443	16	+26.213	0	+6.047	1
15	145.427	23	26.213	1	6.046	2
17	145.404	32	26.214	2	6.044	3
19	145.372	39	26.216	2	6.041	3
21	145.333	44	26.218	3	6.038	3
23	145.289	51	+26.221	4	+6.035	4
25	145.238	59	26.225	5	6.031	5
27	145.179	65	26.230	6	6.026	5
29	145.114	72	26.236	6	6.021	5
Mai 1	145.042	78	26.242	7	6.016	6
3	144.964	85	+26.249	7	+6.010	6
5	144.879	91	26.256	8	6.004	7
7	144.788	97	26.264	9	5.997	7
9	144.691	102	26.273	9	5.990	7
11	144.589	109	26.282	10	5.983	8
13	144.480	114	+26.292	10	+5.975	9
15	144.366	118	26.302	10	5.966	9
17	144.248	123	26.312	11	5.957	9
19	144.125	129	26.323	12	5.948	10
21	143.996	133	26.335	12	5.938	10
23	143.863	137	+26.347	12	+5.928	10
25	143.726	140	26.359	13	5.918	11
27	143.586	145	26.372	13	5.907	12
29	143.441	148	26.385	13	5.895	11
31	143.293	151	26.398	13	5.884	12
Juni 2	143.142	153	+26.411	14	+5.872	11
4	142.989	156	26.425	14	5.861	12
6	142.833	159	26.439	14	5.849	13
8	142.674	161	26.453	14	5.836	12
10	142.513	162	26.467	15	5.824	13
12	142.351	163	+26.482	14	+5.811	13
14	142.188	164	26.496	15	5.798	13
16	142.024	164	26.511	14	5.785	13
18	141.860	165	26.525	14	5.772	13
20	141.695	165	26.539	15	5.759	13
22	141.530	164	+26.554	14	+5.746	13
24	141.366	163	26.568	14	5.733	14
26	141.203	162	26.582	14	5.719	13
28	141.041	161	26.596	14	5.706	13
30	140.880	160	26.610	14	5.693	13
Juli 2	140.720	157	26.624	14	5.680	13
4	140.563		+26.638		+5.667	

Saturn und Saturnsring 1929

0h Welt-Zeit	U	Δ	B	Δ	P	Δ
1929						
Juli 4	140°.563	154	+26°.638	13	+5°.667	13
6	140.409	152	26.651	13	5.654	12
8	140.257	149	26.664	13	5.642	12
10	140.108	145	26.677	13	5.630	12
12	139.963	141	26.690	12	5.618	12
14	139.822	138	+26.702	12	+5.606	11
16	139.684	133	26.714	12	5.595	11
18	139.551	129	26.726	12	5.584	11
20	139.422	124	26.738	12	5.573	11
22	139.298	121	26.750	11	5.562	10
24	139.177	115	+26.761	11	+5.552	10
26	139.062	109	26.772	11	5.542	9
28	138.953	103	26.783	10	5.533	8
30	138.850	98	26.793	10	5.525	8
Aug. 1	138.752	92	26.803	10	5.517	8
3	138.660	86	+26.813	10	+5.509	7
5	138.574	79	26.823	9	5.502	7
7	138.495	73	26.832	9	5.495	6
9	138.422	67	26.841	8	5.489	6
11	138.355	60	26.849	9	5.483	5
13	138.295	53	+26.858	8	+5.478	4
15	138.242	46	26.866	8	5.474	4
17	138.196	39	26.874	7	5.470	3
19	138.157	32	26.881	8	5.467	3
21	138.125	25	26.889	7	5.464	2
23	138.100	18	+26.896	6	+5.462	1
25	138.082	10	26.902	6	5.461	0
27	138.072	4	26.908	6	5.461	0
29	138.068	3	26.914	6	5.461	0
31	138.071	11	26.920	5	5.461	1
Sept. 2	138.082	19	+26.925	5	+5.462	2
4	138.101	25	26.930	5	5.464	3
6	138.126	33	26.935	4	5.467	3
8	138.159	41	26.939	3	5.470	3
10	138.200	48	26.942	4	5.473	4
12	138.248	55	+26.946	3	+5.477	5
14	138.303	61	26.949	4	5.482	5
16	138.364	69	26.953	3	5.487	6
18	138.433	76	26.956	2	5.493	7
20	138.509	83	26.958	1	5.500	8
22	138.592	90	+26.959	1	+5.508	8
24	138.682	96	26.960	1	5.516	9
26	138.778	103	26.961	0	5.525	9
28	138.881	110	26.961	1	5.534	10
30	138.991	117	26.962	0	5.544	10
Okt. 2	139.108	123	26.962	1	5.554	11
4	139.231		+26.961		+5.565	

0h Welt-Zeit	U	Δ	B	Δ	P	Δ
1929						
Okt. 4	139°.231	129	+26°.961	2	+5°.565	11
6	139.360	136	26.959	2	5.576	12
8	139.496	142	26.957	3	5.588	12
10	139.638	148	26.954	3	5.600	13
12	139.786	154	26.951	4	5.613	13
14	139.940	159	+26.947	4	+5.626	13
16	140.099	164	26.943	5	5.639	14
18	140.263	171	26.938	5	5.653	14
20	140.434	176	26.933	5	5.667	15
22	140.610	180	26.928	6	5.682	15
24	140.790	186	+26.922	7	+5.697	15
26	140.976	191	26.915	8	5.712	16
28	141.167	196	26.907	9	5.728	17
30	141.363	200	26.898	10	5.745	16
Nov. 1	141.563	204	26.888	11	5.761	17
3	141.767	210	+26.877	12	+5.778	17
5	141.977	213	26.865	11	5.795	17
7	142.190	217	26.854	12	5.812	17
9	142.407	220	26.842	13	5.829	18
11	142.627	225	26.829	14	5.847	18
13	142.852	228	+26.815	15	+5.865	18
15	143.080	231	26.800	15	5.883	18
17	143.311	234	26.785	16	5.901	18
19	143.545	238	26.769	17	5.919	18
21	143.783	240	26.752	18	5.937	18
23	144.023	242	+26.734	19	+5.955	18
25	144.265	244	26.715	19	5.973	19
27	144.509	248	26.696	20	5.992	18
29	144.757	250	26.676	21	6.010	19
Dez. 1	145.007	252	26.655	20	6.029	19
3	145.259	253	+26.635	21	+6.048	19
5	145.512	255	26.614	22	6.067	18
7	145.767	257	26.592	23	6.085	19
9	146.024	258	26.569	24	6.104	19
11	146.282	259	26.545	26	6.123	18
13	146.541	260	+26.519	25	+6.141	19
15	146.801	261	26.494	26	6.160	18
17	147.062	260	26.468	26	6.178	18
19	147.322	261	26.442	27	6.196	18
21	147.583	261	26.415	28	6.214	18
23	147.844	262	+26.387	29	+6.232	18
25	148.106	262	26.358	29	6.250	18
27	148.368	262	26.329	29	6.268	17
29	148.630	261	26.300	30	6.285	17
31	148.891	260	26.270	32	6.302	17
33	149.151		+26.238		+6.319	

MIMAS

0ʰ Welt-Zeit	L	M	$\log \frac{a(\Delta)}{\Delta}$	$\frac{a(\Delta)}{\Delta} \sin B$
1929	°	°		″
Febr. 28	75.327	275.10	1.39327	+10.99
März 2	119.300	317.07	1.39460	11.02
4	163.273	359.04	1.39595	11.05
6	207.246	41.02	1.39731	11.08
8	251.219	82.99	1.39868	11.11
10	295.193	124.96	1.40007	+11.15
12	339.166	166.94	1.40148	11.18
14	23.139	208.91	1.40290	11.21
16	67.112	250.88	1.40433	11.24
18	111.085	292.85	1.40577	11.27
20	155.058	334.82	1.40721	+11.30
22	199.031	16.80	1.40866	11.33
24	243.004	58.77	1.41012	11.36
26	286.978	100.74	1.41158	11.40
28	330.951	142.72	1.41303	11.44
30	14.924	184.69	1.41449	+11.48
April 1	58.897	226.66	1.41595	11.52
3	102.870	268.63	1.41740	11.56
5	146.843	310.61	1.41885	11.60
7	190.816	352.58	1.42028	11.64
9	234.789	34.55	1.42171	+11.68
11	278.763	76.53	1.42313	11.71
13	322.736	118.50	1.42453	11.75
15	6.709	160.47	1.42592	11.78
17	50.682	202.45	1.42729	11.82
19	94.655	244.42	1.42865	+11.86
21	138.628	286.39	1.42998	11.89
23	182.601	328.37	1.43129	11.93
25	226.574	10.34	1.43258	11.97
27	270.546	52.31	1.43384	12.00
29	314.519	94.29	1.43507	+12.04
Mai 1	358.492	136.26	1.43627	12.07
3	42.465	178.23	1.43744	12.11
5	86.438	220.20	1.43858	12.14
7	130.411	262.18	1.43968	12.18
9	174.384	304.15	1.44075	+12.21
11	218.357	346.12	1.44178	12.25
13	262.329	28.10	1.44277	12.28
15	306.302	70.07	1.44371	12.31
17	350.275	112.04	1.44461	+12.34

MIMAS

0ʰ Welt-Zeit	L	M	$\log \frac{a(\Delta)}{\Delta}$	$\frac{a(\Delta)}{\Delta} \sin B$
1929	°	°		″
Mai 17	350.275	112.04	1.44461	+12.34
19	34.248	154.02	1.44547	12.37
21	78.221	195.99	1.44628	12.40
23	122.194	237.96	1.44705	12.43
25	166.166	279.94	1.44776	12.46
27	210.139	321.91	1.44843	+12.48
29	254.112	3.88	1.44904	12.50
31	298.084	45.86	1.44961	12.52
Juni 2	342.057	87.83	1.45012	12.54
4	26.030	129.80	1.45057	12.56
6	70.003	171.77	1.45097	+12.58
8	113.976	213.74	1.45132	12.60
10	157.948	255.72	1.45161	12.62
12	201.921	297.69	1.45185	12.63
14	245.894	339.66	1.45202	12.64
16	289.866	21.64	1.45214	+12.65
18	333.839	63.61	1.45220	12.65
20	17.812	105.58	1.45221	12.66
22	61.785	147.55	1.45215	12.66
24	105.757	189.52	1.45204	12.66
26	149.730	231.50	1.45188	+12.67
28	193.703	273.47	1.45166	12.67
30	237.675	315.44	1.45138	12.66
Juli 2	281.648	357.42	1.45104	12.66
4	325.621	39.39	1.45065	12.66
6	9.593	81.36	1.45020	+12.65
8	53.566	123.33	1.44970	12.65
10	97.538	165.30	1.44915	12.64
12	141.511	207.28	1.44854	12.63
14	185.484	249.25	1.44789	12.62
16	229.456	291.22	1.44718	+12.60
18	273.429	333.20	1.44643	12.58
20	317.402	15.17	1.44563	12.56
22	1.374	57.14	1.44478	12.53
24	45.347	99.11	1.44389	12.51
26	89.319	141.08	1.44296	+12.48
28	133.292	183.06	1.44199	12.46
30	177.265	225.03	1.44097	12.43
Aug. 1	221.237	267.00	1.43992	12.41
3	265.210	308.98	1.43883	+12.38

MIMAS

0h Welt-Zeit	L	M	log a(Δ)/Δ	a(Δ)/Δ sin B
1929				
Aug. 3	265°.210	308°.98	1.43883	+12″.38
5	309.183	350.95	1.43771	12.36
7	353.155	32.92	1.43655	12.33
9	37.128	74.89	1.43536	12.30
11	81.100	116.86	1.43414	12.27
13	125.073	158.84	1.43289	+12.24
15	169.045	200.81	1.43162	12.21
17	213.018	242.78	1.43033	12.18
19	256.990	284.76	1.42901	12.14
21	300.963	326.73	1.42767	12.11
23	344.935	8.70	1.42631	+12.07
25	28.908	50.67	1.42493	12.04
27	72.880	92.64	1.42354	12.00
29	116.853	134.62	1.42214	11.96
31	160.825	176.59	1.42073	11.93
Sept. 2	204.797	218.56	1.41930	+11.89
4	248.769	260.54	1.41786	11.86
6	292.742	302.51	1.41642	11.82
8	336.714	344.48	1.41498	11.78
10	20.687	26.45	1.41353	11.75
12	64.659	68.42	1.41208	+11.71
14	108.632	110.40	1.41063	11.68
16	152.604	152.37	1.40918	11.64
18	196.576	194.34	1.40774	11.60
20	240.548	236.32	1.40630	11.56
22	284.521	278.29	1.40487	+11.52
24	328.493	320.26	1.40345	11.48
26	12.465	2.23	1.40204	11.45
28	56.437	44.20	1.40063	11.41
30	100.410	86.18	1.39924	11.37
Okt. 2	144.382	128.15	1.39786	+11.34
4	188.354	170.12	1.39650	11.30
6	232.326	212.10	1.39516	11.27
8	276.299	254.07	1.39383	11.23
10	320.271	296.04	1.39252	11.19
12	4.243	338.01	1.39123	+11.15
14	48.215	19.98	1.38996	11.11
16	92.188	61.95	1.38871	11.08
18	136.160	103.92	1.38749	11.05
20	180.132	145.90	1.38629	+11.02

ENCELADUS

0h Welt-Zeit	L	M	log a(Δ)/Δ	a(Δ)/Δ sin B
1929				
Febr. 28	8°.395	300°.3	1.50148	+14″.10
März 2	173.857	105.1	1.50281	14.14
4	339.319	269.8	1.50416	14.18
6	144.781	74.6	1.50552	14.22
8	310.242	239.4	1.50689	14.26
10	115.704	44.2	1.50828	+14.30
12	281.166	208.9	1.50969	14.34
14	86.628	13.7	1.51111	14.38
16	252.090	178.5	1.51254	14.42
18	57.552	343.3	1.51398	14.46
20	223.014	148.1	1.51542	+14.50
22	28.475	312.9	1.51687	14.54
24	193.937	117.6	1.51833	14.58
26	359.399	282.4	1.51979	14.62
28	164.861	87.2	1.52124	14.67
30	330.323	252.0	1.52270	+14.72
April 1	135.785	56.8	1.52416	14.77
3	301.247	221.6	1.52561	14.82
5	106.709	26.4	1.52706	14.87
7	272.171	191.2	1.52849	14.92
9	77.633	355.9	1.52992	+14.97
11	243.096	160.7	1.53134	15.02
13	48.558	325.5	1.53274	15.07
15	214.020	130.3	1.53413	15.11
17	19.482	295.1	1.53550	15.16
19	184.944	99.9	1.53686	+15.21
21	350.406	264.7	1.53819	15.26
23	155.868	69.5	1.53950	15.30
25	321.330	234.2	1.54079	15.35
27	126.793	39.0	1.54205	15.40
29	292.255	203.8	1.54328	+15.44
Mai 1	97.717	8.6	1.54448	15.49
3	263.179	173.4	1.54565	15.54
5	68.641	338.2	1.54679	15.59
7	234.103	143.0	1.54789	15.63
9	39.566	307.8	1.54896	+15.67
11	205.028	112.5	1.54999	15.71
13	10.490	277.3	1.55098	15.75
15	175.952	82.1	1.55192	15.79
17	341.415	246.9	1.55282	+15.83

ENCELADUS

0h Welt-Zeit	L	M	$\log \frac{a(\Delta)}{\Delta}$	$\frac{a(\Delta)}{\Delta} \sin B$
1929	°	°		"
Mai 17	341.415	246.9	1.55282	+15.83
19	146.877	51.7	1.55368	15.87
21	312.339	216.5	1.55449	15.90
23	117.802	21.3	1.55526	15.93
25	283.264	186.1	1.55597	15.96
27	88.726	350.8	1.55664	+15.99
29	254.189	155.6	1.55725	16.02
31	59.651	320.4	1.55782	16.05
Juni 2	225.114	125.2	1.55833	16.08
4	30.576	290.0	1.55878	16.11
6	196.038	94.8	1.55918	+16.13
8	1.501	259.6	1.55953	16.15
10	166.963	64.4	1.55982	16.17
12	332.425	229.1	1.56006	16.19
14	137.888	33.9	1.56023	16.20
16	303.350	198.7	1.56035	+16.22
18	108.813	3.5	1.56041	16.23
20	274.275	168.3	1.56042	16.24
22	79.738	333.1	1.56036	16.24
24	245.200	137.9	1.56025	16.24
26	50.663	302.7	1.56009	+16.25
28	216.125	107.4	1.55987	16.25
30	21.588	272.2	1.55959	16.24
Juli 2	187.051	77.0	1.55925	16.24
4	352.514	241.8	1.55886	16.23
6	157.976	46.6	1.55841	+16.23
8	323.439	211.4	1.55791	16.22
10	128.901	16.2	1.55736	16.21
12	294.364	181.0	1.55675	16.20
14	99.826	345.7	1.55610	16.19
16	265.289	150.5	1.55539	+16.17
18	70.752	315.3	1.55464	16.14
20	236.215	120.1	1.55384	16.11
22	41.677	284.9	1.55299	16.08
24	207.140	89.7	1.55210	16.05
26	12.602	254.5	1.55117	+16.02
28	178.065	59.3	1.55020	15.99
30	343.528	224.0	1.54918	15.96
Aug. 1	148.990	28.8	1.54813	15.93
3	314.453	193.6	1.54704	+15.90

ENCELADUS

0h Welt-Zeit	L	M	$\log \frac{a(\Delta)}{\Delta}$	$\frac{a(\Delta)}{\Delta} \sin B$
1929	°	°		"
Aug. 3	314.453	193.6	1.54704	+15.90
5	119.916	358.4	1.54592	15.86
7	285.379	163.2	1.54476	15.82
9	90.842	328.0	1.54357	15.78
11	256.305	132.8	1.54235	15.74
13	61.768	297.6	1.54110	+15.70
15	227.231	102.3	1.53983	15.66
17	32.693	267.1	1.53854	15.62
19	198.156	71.9	1.53722	15.58
21	3.619	236.7	1.53588	15.54
23	169.082	41.5	1.53452	+15.49
25	334.545	206.3	1.53314	15.45
27	140.008	11.1	1.53175	15.40
29	305.471	175.9	1.53035	15.36
31	110.934	340.6	1.52894	15.31
Sept. 2	276.397	145.4	1.52751	+15.26
4	81.860	310.2	1.52607	15.21
6	247.323	115.0	1.52463	15.16
8	52.786	279.8	1.52319	15.11
10	218.249	84.6	1.52174	15.07
12	23.712	249.4	1.52029	+15.02
14	189.176	54.2	1.51884	14.97
16	354.639	218.9	1.51739	14.92
18	160.102	23.7	1.51595	14.88
20	325.566	188.5	1.51451	14.83
22	131.029	353.3	1.51308	+14.78
24	296.492	158.1	1.51166	14.73
26	101.955	322.9	1.51025	14.69
28	267.418	127.7	1.50884	14.64
30	72.882	292.5	1.50745	14.59
Okt. 2	238.345	97.2	1.50607	+14.55
4	43.808	262.0	1.50471	14.50
6	209.272	66.8	1.50337	14.46
8	14.735	231.6	1.50204	14.41
10	180.198	36.4	1.50073	14.36
12	345.661	201.2	1.49944	+14.32
14	151.124	6.0	1.49817	14.27
16	316.588	170.8	1.49692	14.23
18	122.051	335.5	1.49570	14.19
20	287.515	140.3	1.49450	+14.14

TETHYS

0^h Welt-Zeit	L	M	$\log \frac{a(\Delta)}{\Delta}$	$\frac{a(\Delta)}{\Delta} \sin B$
1929	°			″
Febr. 28	136.092		1.59417	+17.46
März 2	157.488		1.59550	17.50
4	178.885		1.59685	17.55
6	200.281		1.59821	17.60
8	221.677		1.59958	17.65
10	243.074		1.60097	+17.70
12	264.470		1.60238	17.75
14	285.867		1.60380	17.80
16	307.263		1.60523	17.85
18	328.659		1.60667	17.90
20	350.056		1.60811	+17.96
22	11.452		1.60956	18.01
24	32.848		1.61102	18.07
26	54.245		1.61248	18.12
28	75.641		1.61393	18.18
30	97.038		1.61539	+18.23
April 1	118.434		1.61685	18.29
3	139.830		1.61830	18.34
5	161.227		1.61975	18.40
7	182.623		1.62118	18.46
9	204.019		1.62261	+18.52
11	225.416		1.62403	18.58
13	246.812		1.62543	18.64
15	268.209		1.62682	18.70
17	289.605		1.62819	18.76
19	311.001		1.62955	+18.82
21	332.398		1.63088	18.88
23	353.794		1.63219	18.94
25	15.190		1.63348	19.00
27	36.587		1.63474	19.06
29	57.983		1.63597	+19.12
Mai 1	79.380		1.63717	19.18
3	100.776		1.63834	19.23
5	122.172		1.63948	19.29
7	143.569		1.64058	19.34
9	164.965		1.64165	+19.39
11	186.361		1.64268	19.44
13	207.758		1.64367	19.49
15	229.154		1.64461	19.54
17	250.551		1.64551	+19.59

TETHYS

0^h Welt-Zeit	L	M	$\log \frac{a(\Delta)}{\Delta}$	$\frac{a(\Delta)}{\Delta} \sin B$
1929	°			″
Mai 17	250.551		1.64551	+19.59
19	271.947		1.64637	19.64
21	293.343		1.64718	19.68
23	314.740		1.64795	19.72
25	336.136		1.64866	19.76
27	357.532		1.64933	+19.80
29	18.929		1.64994	19.84
31	40.325		1.65051	19.88
Juni 2	61.722		1.65102	19.92
4	83.118		1.65147	19.95
6	104.514		1.65187	+19.98
8	125.911		1.65222	20.01
10	147.307		1.65251	20.03
12	168.703		1.65275	20.05
14	190.100		1.65292	20.06
16	211.496		1.65304	+20.08
18	232.893		1.65310	20.09
20	254.289		1.65311	20.10
22	275.685		1.65305	20.10
24	297.082		1.65294	20.10
26	318.478		1.65278	+20.11
28	339.874		1.65256	20.11
30	1.271		1.65228	20.10
Juli 2	22.667		1.65194	20.10
4	44.064		1.65155	20.09
6	65.460		1.65110	+20.09
8	86.856		1.65060	20.08
10	108.253		1.65005	20.07
12	129.649		1.64944	20.05
14	151.045		1.64879	20.03
16	172.442		1.64808	+20.01
18	193.838		1.64733	19.98
20	215.235		1.64653	19.95
22	236.631		1.64568	19.91
24	258.027		1.64479	19.87
26	279.424		1.64386	+19.83
28	300.820		1.64289	19.79
30	322.216		1.64187	19.75
Aug. 1	343.613		1.64082	19.71
3	5.009		1.63973	+19.67

TETHYS

0^h Welt-Zeit	L	M	$\log \frac{a(\Delta)}{\Delta}$	$\frac{a(\Delta)}{\Delta} \sin B$
1929	°			″
Aug. 3	5.009		1.63973	+19.67
5	26.406		1.63861	19.63
7	47.802		1.63745	19.59
9	69.198		1.63626	19.54
11	90.595		1.63504	19.49
13	111.991		1.63379	+19.44
15	133.387		1.63252	19.39
17	154.784		1.63123	19.34
19	176.180		1.62991	19.28
21	197.577		1.62857	19.23
23	218.973		1.62721	+19.17
25	240.369		1.62583	19.12
27	261.766		1.62444	19.06
29	283.162		1.62304	19.01
31	304.559		1.62162	18.95
Sept. 2	325.955		1.62020	+18.89
4	347.352		1.61876	18.83
6	8.748		1.61732	18.77
8	30.145		1.61588	18.71
10	51.541		1.61443	18.65
12	72.938		1.61298	+18.59
14	94.334		1.61153	18.53
16	115.730		1.61008	18.47
18	137.127		1.60864	18.41
20	158.523		1.60720	18.35
22	179.920		1.60577	+18.29
24	201.316		1.60435	18.23
26	222.712		1.60294	18.18
28	244.109		1.60153	18.12
30	265.505		1.60014	18.06
Okt. 2	286.901		1.59876	+18.01
4	308.298		1.59740	17.95
6	329.694		1.59606	17.89
8	351.091		1.59473	17.84
10	12.487		1.59342	17.78
12	33.883		1.59213	+17.73
14	55.280		1.59086	17.68
16	76.676		1.58961	17.62
18	98.072		1.58839	17.57
20	119.469		1.58719	+17.51

DIONE

0^h Welt-Zeit	L	M	$\log \frac{a(\Delta)}{\Delta}$	$\frac{a(\Delta)}{\Delta} \sin B$
1929	°	°		″
Febr. 28	218.206	22.4	1.70165	+22.36
März 2	121.276	285.3	1.70298	22.42
4	24.346	188.2	1.70433	22.48
6	287.416	91.1	1.70569	22.54
8	190.485	354.0	1.70706	22.61
10	93.555	256.9	1.70845	+22.67
12	356.625	159.8	1.70986	22.73
14	259.695	62.7	1.71128	22.80
16	162.765	325.6	1.71271	22.86
18	65.835	228.5	1.71415	22.93
20	328.905	131.4	1.71559	+23.00
22	231.975	34.3	1.71704	23.07
24	135.044	297.2	1.71850	23.14
26	38.114	200.1	1.71996	23.21
28	301.184	103.0	1.72141	23.28
30	204.254	5.9	1.72287	+23.36
April 1	107.324	268.8	1.72433	23.43
3	10.394	171.7	1.72578	23.51
5	273.464	74.6	1.72723	23.58
7	176.534	337.5	1.72866	23.66
9	79.603	240.4	1.73009	+23.73
11	342.673	143.3	1.73151	23.81
13	245.743	46.2	1.73291	23.88
15	148.813	309.1	1.73430	23.96
17	51.883	212.0	1.73567	24.03
19	314.953	114.9	1.73703	+24.11
21	218.023	17.8	1.73836	24.18
23	121.093	280.7	1.73967	24.26
25	24.162	183.6	1.74096	24.33
27	287.232	86.5	1.74222	24.41
29	190.302	349.4	1.74345	+24.48
Mai 1	93.372	252.3	1.74465	24.56
3	356.442	155.2	1.74582	24.63
5	259.512	58.1	1.74696	24.70
7	162.582	321.0	1.74806	24.77
9	65.652	223.9	1.74913	+24.84
11	328.721	126.8	1.75016	24.90
13	231.791	29.7	1.75115	24.97
15	134.861	292.6	1.75209	25.03
17	37.931	195.5	1.75299	+25.10

DIONE

0h Welt-Zeit	L	M	$\log \frac{a(\Delta)}{\Delta}$	$\frac{a(\Delta)}{\Delta} \sin B$
1929				
Mai 17	37°.931	195°.5	1.75299	+25″.10
19	301.001	98.4	1.75385	25.16
21	204.071	1.3	1.75466	25.21
23	107.140	264.2	1.75543	25.26
25	10.210	167.1	1.75614	25.31
27	273.280	70.0	1.75681	+25.36
29	176.350	332.9	1.75742	25.41
31	79.419	235.8	1.75799	25.46
Juni 2	342.489	138.7	1.75850	25.51
4	245.559	41.6	1.75895	25.55
6	148.629	304.5	1.75935	+25.59
8	51.699	207.4	1.75970	25.63
10	314.769	110.3	1.75999	25.66
12	217.838	13.2	1.76023	25.69
14	120.908	276.1	1.76040	25.71
16	23.978	179.0	1.76052	+25.73
18	287.048	81.9	1.76058	25.74
20	190.118	344.8	1.76059	25.75
22	93.188	247.7	1.76053	25.76
24	356.258	150.6	1.76042	25.77
26	259.327	53.6	1.76026	+25.77
28	162.397	316.5	1.76004	25.77
30	65.467	219.4	1.75976	25.76
Juli 2	328.537	122.3	1.75942	25.75
4	231.606	25.2	1.75903	25.74
6	134.676	288.1	1.75858	+25.73
8	37.746	191.0	1.75808	25.71
10	300.816	93.9	1.75753	25.69
12	203.885	356.8	1.75692	25.66
14	106.955	259.7	1.75627	25.63
16	10.025	162.6	1.75556	+25.60
18	273.095	65.5	1.75481	25.57
20	176.164	328.4	1.75401	25.54
22	79.234	231.3	1.75316	25.50
24	342.304	134.2	1.75227	25.46
26	245.374	37.1	1.75134	+25.42
28	148.444	300.0	1.75037	25.37
30	51.513	202.9	1.74935	25.32
Aug. 1	314.583	105.8	1.74830	25.27
3	217.653	8.7	1.74721	+25.21

DIONE

0h Welt-Zeit	L	M	$\log \frac{a(\Delta)}{\Delta}$	$\frac{a(\Delta)}{\Delta} \sin B$
1929				
Aug. 3	217°.653	8°.7	1.74721	+25″.21
5	120.723	271.6	1.74609	25.15
7	23.793	174.5	1.74493	25.09
9	286.863	77.4	1.74374	25.03
11	189.933	340.3	1.74252	24.97
13	93.002	243.2	1.74127	+24.90
15	356.072	146.1	1.74000	24.84
17	259.142	49.0	1.73871	24.77
19	162.212	311.9	1.73739	24.70
21	65.281	214.8	1.73605	24.63
23	328.351	117.7	1.73469	+24.56
25	231.421	20.6	1.73331	24.49
27	134.491	283.5	1.73192	24.41
29	37.560	186.4	1.73052	24.34
31	300.630	89.3	1.72911	24.26
Sept. 2	203.700	352.2	1.72768	+24.19
4	106.770	255.1	1.72624	24.11
6	9.839	158.0	1.72480	24.04
8	272.909	60.9	1.72336	23.96
10	175.979	323.8	1.72191	23.89
12	79.049	226.7	1.72046	+23.81
14	342.118	129.6	1.71901	23.74
16	245.188	32.4	1.71756	23.66
18	148.258	295.3	1.71612	23.58
20	51.328	198.2	1.71468	23.51
22	314.397	101.1	1.71325	+23.43
24	217.467	4.0	1.71183	23.35
26	120.537	266.9	1.71042	23.28
28	23.607	169.8	1.70901	23.20
30	286.676	72.7	1.70762	23.13
Okt. 2	189.746	335.7	1.70624	+23.05
4	92.816	238.6	1.70488	22.98
6	355.886	141.5	1.70354	22.90
8	258.955	44.4	1.70221	22.83
10	162.025	307.3	1.70090	22.76
12	65.095	210.2	1.69961	+22.69
14	328.165	113.1	1.69834	22.63
16	231.234	16.0	1.69709	22.56
18	134.304	278.9	1.69587	22.49
20	37.374	181.8	1.69467	+22.43

RHEA

0h Welt-Zeit	L	M	$\log \frac{a(\Delta)}{\Delta}$	$\frac{a(\Delta)}{\Delta} \sin B$
1929	°	°		"
Febr. 28	194.180	7.1	1.84669	+31.22
März 2	353.560	166.5	1.84802	31.30
4	152.940	325.9	1.84937	31.38
6	312.320	125.3	1.85073	31.47
8	111.700	284.6	1.85210	31.56
10	271.080	84.0	1.85349	+31.65
12	70.460	243.4	1.85490	31.74
14	229.840	42.8	1.85632	31.83
16	29.219	202.2	1.85775	31.92
18	188.599	1.6	1.85919	32.01
20	347.979	160.9	1.86063	+32.11
22	147.359	320.3	1.86208	32.21
24	306.739	119.7	1.86354	32.31
26	106.119	279.1	1.86500	32.41
28	265.499	78.4	1.86645	32.51
30	64.879	237.8	1.86791	+32.61
April 1	224.259	37.2	1.86937	32.72
3	23.639	196.6	1.87082	32.82
5	183.019	356.0	1.87227	32.93
7	342.399	155.4	1.87370	33.03
9	141.779	314.7	1.87513	+33.14
11	301.158	114.1	1.87655	33.24
13	100.538	273.5	1.87795	33.35
15	259.918	72.9	1.87934	33.45
17	59.298	232.3	1.88071	33.56
19	218.678	31.7	1.88207	+33.66
21	18.058	191.1	1.88340	33.77
23	177.438	350.5	1.88471	33.88
25	336.818	149.8	1.88600	33.99
27	136.198	309.2	1.88726	34.10
29	295.578	108.6	1.88849	+34.20
Mai 1	94.958	268.0	1.88969	34.30
3	254.338	67.4	1.89086	34.40
5	53.718	226.8	1.89200	34.50
7	213.098	26.1	1.89310	34.60
9	12.478	185.5	1.89417	+34.70
11	171.858	344.9	1.89520	34.79
13	331.238	144.3	1.89619	34.88
15	130.618	303.6	1.89713	34.97
17	289.998	103.0	1.89803	+35.05

RHEA

0h Welt-Zeit	L	M	$\log \frac{a(\Delta)}{\Delta}$	$\frac{a(\Delta)}{\Delta} \sin B$
1929	°	°		"
Mai 17	289.998	103.0	1.89803	+35.05
19	89.378	262.4	1.89889	35.13
21	248.758	61.8	1.89970	35.21
23	48.138	221.2	1.90047	35.29
25	207.518	20.6	1.90118	35.36
27	6.898	179.9	1.90185	+35.43
29	166.277	339.3	1.90246	35.50
31	325.657	138.7	1.90303	35.56
Juni 2	125.037	298.1	1.90354	35.62
4	284.417	97.5	1.90399	35.68
6	83.797	256.9	1.90439	+35.73
8	243.177	56.3	1.90474	35.78
10	42.557	215.7	1.90503	35.82
12	201.937	15.0	1.90527	35.85
14	1.317	174.4	1.90544	35.88
16	160.697	333.8	1.90556	+35.91
18	320.077	133.2	1.90562	35.93
20	119.457	292.6	1.90563	35.95
22	278.837	92.0	1.90557	35.96
24	78.217	251.3	1.90546	35.96
26	237.597	50.7	1.90530	+35.97
28	36.977	210.1	1.90508	35.98
30	196.356	9.5	1.90480	35.97
Juli 2	355.736	168.8	1.90446	35.96
4	155.116	328.2	1.90407	35.95
6	314.496	127.6	1.90362	+35.93
8	113.876	287.0	1.90312	35.91
10	273.256	86.4	1.90257	35.88
12	72.636	245.8	1.90196	35.84
14	232.016	45.1	1.90131	35.80
16	31.396	204.5	1.90060	+35.75
18	190.776	3.9	1.89985	35.70
20	350.156	163.3	1.89905	35.65
22	149.536	322.7	1.89820	35.60
24	308.916	122.1	1.89731	35.54
26	108.296	281.4	1.89638	+35.48
28	267.676	80.8	1.89541	35.42
30	67.056	240.2	1.89439	35.35
Aug. 1	226.435	39.6	1.89334	35.28
3	25.815	198.9	1.89225	+35.20

RHEA

0h Welt-Zeit	L	M	log a(Δ)/Δ	a(Δ)/Δ sin B
1929	°	°		″
Aug. 3	25.815	198.9	1.89225	+35.20
5	185.195	358.3	1.89113	35.12
7	344.575	157.7	1.88997	35.04
9	143.955	317.1	1.88878	34.95
11	303.335	116.5	1.88756	34.86
13	102.715	275.9	1.88631	+34.77
15	262.095	75.2	1.88504	34.68
17	61.475	234.6	1.88375	34.59
19	220.855	34.0	1.88243	34.49
21	20.235	193.4	1.88109	34.39
23	179.615	352.8	1.87973	+34.29
25	338.995	152.2	1.87835	34.19
27	138.375	311.6	1.87696	34.09
29	297.755	111.0	1.87556	33.99
31	97.135	270.3	1.87415	33.88
Sept. 2	256.514	69.7	1.87272	+33.78
4	55.894	229.1	1.87128	33.67
6	215.274	28.5	1.86984	33.57
8	14.654	187.9	1.86840	33.46
10	174.034	347.3	1.86695	33.36
12	333.414	146.7	1.86550	+33.25
14	132.794	306.1	1.86405	33.14
16	292.174	105.4	1.86260	33.03
18	91.554	264.8	1.86116	32.92
20	250.934	64.2	1.85972	32.82
22	50.314	223.6	1.85829	+32.71
24	209.694	23.0	1.85687	32.61
26	9.074	182.4	1.85546	32.50
28	168.454	341.7	1.85405	32.40
30	327.834	141.1	1.85266	32.29
Okt. 2	127.214	300.5	1.85128	+32.19
4	286.593	99.9	1.84992	32.09
6	85.973	259.2	1.84858	31.99
8	245.353	58.6	1.84725	31.89
10	44.733	218.0	1.84594	31.79
12	204.113	17.4	1.84465	+31.69
14	3.493	176.8	1.84338	31.59
16	162.873	336.2	1.84213	31.50
18	322.253	135.5	1.84091	31.41
20	121.633	294.9	1.83971	+31.32

TITAN

0h Welt-Zeit	L	M	log a(Δ)/Δ	a(Δ)/Δ sin B
1929	°	°		″
Febr. 28	123.27	311.4	2.21184	+72.38
März 2	168.42	356.5	2.21317	72.57
4	213.58	41.7	2.21452	72.76
6	258.73	86.8	2.21588	72.96
8	303.88	132.0	2.21725	73.16
10	349.04	177.1	2.21864	+73.37
12	34.19	222.3	2.22005	73.58
14	79.34	267.4	2.22147	73.79
16	124.50	312.6	2.22290	74.00
18	169.65	357.7	2.22434	74.22
20	214.81	42.9	2.22578	+74.44
22	259.96	88.0	2.22723	74.67
24	305.11	133.2	2.22869	74.90
26	350.27	178.3	2.23015	75.13
28	35.42	223.5	2.23160	75.36
30	80.57	268.6	2.23306	+75.60
April 1	125.73	313.8	2.23452	75.84
3	170.88	358.9	2.23597	76.08
5	216.04	44.1	2.23742	76.32
7	261.19	89.2	2.23885	76.57
9	306.34	134.4	2.24028	+76.82
11	351.50	179.5	2.24170	77.06
13	36.65	224.7	2.24310	77.31
15	81.81	269.8	2.24449	77.56
17	126.96	315.0	2.24586	77.81
19	172.11	0.1	2.24722	+78.05
21	217.27	45.3	2.24855	78.30
23	262.42	90.4	2.24986	78.54
25	307.57	135.6	2.25115	78.79
27	352.73	180.7	2.25241	79.03
29	37.88	225.9	2.25364	+79.27
Mai 1	83.04	271.0	2.25484	79.51
3	128.19	316.2	2.25601	79.75
5	173.34	1.3	2.25715	79.98
7	218.50	46.5	2.25825	80.20
9	263.65	91.6	2.25932	+80.42
11	308.81	136.8	2.26035	80.64
13	353.96	181.9	2.26134	80.85
15	39.11	227.1	2.26228	81.06
17	84.27	272.2	2.26318	+81.26

TITAN

0h Welt-Zeit	L	M	log a(Δ)/Δ	a(Δ)/Δ sin B
1929				
Mai 17	84°.27	272°.2	2.26318	+81″.26
19	129.42	317.4	2.26404	81.45
21	174.57	2.5	2.26485	81.63
23	219.73	47.7	2.26562	81.81
25	264.88	92.8	2.26633	81.98
27	310.03	138.0	2.26700	+82.14
29	355.19	183.1	2.26761	82.29
31	40.34	228.3	2.26818	82.44
Juni 2	85.49	273.4	2.26869	82.57
4	130.65	318.6	2.26914	82.70
6	175.80	3.7	2.26954	+82.82
8	220.96	48.9	2.26989	82.93
10	266.11	94.0	2.27018	83.03
12	311.26	139.2	2.27042	83.11
14	356.42	184.3	2.27059	83.19
16	41.57	229.5	2.27071	+83.26
18	86.72	274.6	2.27077	83.31
20	131.88	319.8	2.27078	83.35
22	177.03	4.9	2.27072	83.38
24	222.19	50.1	2.27061	83.40
26	267.34	95.2	2.27045	+83.41
28	312.49	140.4	2.27023	83.41
30	357.65	185.5	2.26995	83.40
Juli 2	42.80	230.7	2.26961	83.38
4	87.95	275.8	2.26922	83.34
6	133.11	321.0	2.26877	+83.29
8	178.26	6.1	2.26827	83.23
10	223.42	51.3	2.26772	83.16
12	268.57	96.4	2.26711	83.08
14	313.72	141.6	2.26646	82.99
16	358.88	186.7	2.26575	+82.89
18	44.03	231.9	2.26500	82.78
20	89.18	277.0	2.26420	82.66
22	134.34	322.2	2.26335	82.54
24	179.49	7.3	2.26246	82.40
26	224.65	52.5	2.26153	+82.25
28	269.80	97.6	2.26056	82.10
30	314.95	142.8	2.25954	81.94
Aug. 1	0.11	187.9	2.25849	81.77
3	45.26	233.1	2.25740	+81.59

TITAN

0h Welt-Zeit	L	M	log a(Δ)/Δ	a(Δ)/Δ sin B
1929				
Aug. 3	45°.26	233°.1	2.25740	+81″.59
5	90.41	278.2	2.25628	81.41
7	135.57	323.4	2.25512	81.22
9	180.72	8.5	2.25393	81.02
11	225.88	53.7	2.25271	80.82
13	271.03	98.8	2.25146	+80.61
15	316.18	144.0	2.25019	80.40
17	1.34	189.1	2.24890	80.18
19	46.49	234.3	2.24758	79.96
21	91.64	279.4	2.24624	79.73
23	136.80	324.6	2.24488	+79.50
25	181.95	9.8	2.24350	79.27
27	227.11	54.9	2.24211	79.03
29	272.26	100.1	2.24071	78.79
31	317.41	145.3	2.23930	78.55
Sept. 2	2.57	190.4	2.23787	+78.31
4	47.72	235.6	2.23643	78.06
6	92.87	280.7	2.23499	77.82
8	138.03	325.9	2.23355	77.57
10	183.18	11.0	2.23210	77.33
12	228.34	56.2	2.23065	+77.08
14	273.49	101.3	2.22920	76.83
16	318.64	146.5	2.22775	76.58
18	3.80	191.6	2.22631	76.33
20	48.95	236.8	2.22487	76.08
22	94.10	281.9	2.22344	+75.84
24	139.26	327.1	2.22202	75.59
26	184.41	12.2	2.22061	75.35
28	229.57	57.4	2.21920	75.11
30	274.72	102.5	2.21781	74.87
Okt. 2	319.87	147.7	2.21643	+74.63
4	5.03	192.8	2.21507	74.39
6	50.18	238.0	2.21373	74.16
8	95.33	283.1	2.21240	73.93
10	140.49	328.3	2.21109	73.70
12	185.64	13.4	2.20980	+73.47
14	230.80	58.6	2.20853	73.25
16	275.95	103.7	2.20728	73.03
18	321.11	148.9	2.20606	72.81
20	6.26	194.0	2.20486	+72.60

Saturnstrabanten 1929

Bewegung der mittleren Länge L und der mittleren Anomalie M

Zeit	Mimas		Enceladus		Tethys	Dione		Rhea		Titan	
	L	M	L	M	L	L	M	L	M	L	M
1d	381°.987	380°.99	262°.731	262°.4	190°.698	131°.535	131°.5	79°.690	79°.7	22°.58	22°.6
1h	15°.916	15°.87	10°.947	10°.9	7°.946	5°.481	5°.5	3°.320	3°.3	0°.94	0°.9
2	31.832	31.75	21.894	21.9	15.892	10.961	11.0	6.641	6.6	1.88	1.9
3	47.748	47.62	32.842	32.8	23.838	16.442	16.4	9.961	10.0	2.82	2.8
4	63.664	63.50	43.789	43.7	31.783	21.923	21.9	13.282	13.3	3.76	3.8
5	79.581	79.37	54.736	54.7	39.729	27.403	27.4	16.602	16.6	4.70	4.7
6	95.497	95.25	65.683	65.6	47.675	32.884	32.9	19.923	19.9	5.64	5.7
7	111.413	111.12	76.630	76.5	55.621	38.364	38.4	23.243	23.2	6.59	6.6
8	127.329	127.00	87.577	87.5	63.566	43.845	43.8	26.564	26.6	7.53	7.5
9	143.245	142.87	98.525	98.4	71.512	49.326	49.3	29.884	29.9	8.47	8.5
10	159.161	158.75	109.472	109.3	79.458	54.806	54.8	33.205	33.2	9.41	9.4
11	175.077	174.62	120.419	120.3	87.403	60.287	60.3	36.525	36.5	10.35	10.4
12	190.993	190.50	131.366	131.2	95.349	65.767	65.7	39.845	39.8	11.29	11.3
13	206.910	206.37	142.313	142.1	103.295	71.248	71.2	43.166	43.2	12.23	12.2
14	222.826	222.24	153.260	153.1	111.241	76.729	76.7	46.486	46.5	13.17	13.2
15	238.742	238.12	164.207	164.0	119.186	82.209	82.2	49.806	49.8	14.11	14.1
16	254.658	253.99	175.154	174.9	127.132	87.690	87.7	53.127	53.1	15.05	15.1
17	270.574	269.86	186.101	185.9	135.078	93.171	93.1	56.447	56.5	15.99	16.0
18	286.490	285.74	197.048	196.8	143.024	98.651	98.6	59.768	59.8	16.93	17.0
19	302.406	301.61	207.996	207.7	150.970	104.132	104.1	63.088	63.1	17.88	17.9
20	318.322	317.49	218.943	218.7	158.916	109.613	109.6	66.409	66.4	18.82	18.8
21	334.239	333.36	229.890	229.6	166.861	115.093	115.1	69.729	69.7	19.76	19.8
22	350.155	349.24	240.837	240.5	174.806	120.574	120.5	73.050	73.1	20.70	20.7
23	366.071	365.11	251.784	251.5	182.752	126.054	126.0	76.370	76.4	21.64	21.7
1m	0°.265	0°.26	0°.182	0°.2	0°.132	0°.091	0°.1	0°.055	0°.0	0°.02	0°.0
2	0.531	0.53	0.365	0.4	0.265	0.183	0.2	0.111	0.1	0.03	0.0
3	0.796	0.79	0.547	0.5	0.397	0.274	0.3	0.166	0.1	0.05	0.0
4	1.061	1.06	0.730	0.7	0.530	0.365	0.4	0.221	0.2	0.06	0.1
5	1.326	1.32	0.912	0.9	0.662	0.457	0.5	0.277	0.2	0.08	0.1
6	1.592	1.58	1.095	1.1	0.795	0.548	0.5	0.332	0.3	0.09	0.1
7	1.857	1.85	1.278	1.3	0.927	0.640	0.6	0.387	0.3	0.11	0.1
8	2.122	2.11	1.460	1.4	1.060	0.731	0.7	0.442	0.4	0.13	0.1
9	2.388	2.38	1.642	1.6	1.192	0.822	0.8	0.497	0.4	0.14	0.1
10	2.653	2.64	1.825	1.8	1.324	0.914	0.9	0.553	0.5	0.16	0.2
20	5.305	5.29	3.649	3.6	2.649	1.827	1.8	1.107	1.1	0.31	0.3
30	7.958	7.93	5.474	5.4	3.973	2.740	2.7	1.660	1.6	0.47	0.5
40	10.611	10.58	7.298	7.3	5.297	3.654	3.7	2.214	2.2	0.63	0.6
50	13.263	13.22	9.123	9.1	6.622	4.567	4.6	2.767	2.7	0.78	0.8
10s	0°.044	0°.04	0°.030	0°.0	0°.022	0°.015	0°.0	0°.009	0°.0	0°.00	0°.0
20	0.088	0.09	0.061	0.1	0.044	0.030	0.0	0.018	0.0	0.01	0.0
30	0.133	0.13	0.091	0.1	0.066	0.046	0.0	0.028	0.0	0.01	0.0
40	0.177	0.17	0.122	0.1	0.088	0.061	0.1	0.037	0.0	0.01	0.0
50	0.221	0.22	0.152	0.2	0.110	0.076	0.1	0.046	0.0	0.01	0.0

0h Welt-Zeit	ϑ					γ	N	J	ω
	Mimas	Encel.	Tethys	Dione	Rhea	Rhea	Saturnsring		
1929 Jan. −5	172°.8	253°.8	343°.2	357°.7	339°.3	19′.74	127°.584	6°.801	42°.048
+11	156.8	247.2	340.1	356.4	338.7	19.75	127.586	6.800	42.047
27	140.8	240.5	336.9	355.0	338.2	19.76	127.587	6.800	42.046
Febr. 12	124.8	233.8	333.7	353.7	337.8	19.78	127.589	6.800	42.044
28	108.7	227.1	330.5	352.3	337.3	19.79	127.591	6.800	42.043
März 16	92.7	220.4	327.4	350.9	336.9	19.80	127.593	6.800	42.042
April 1	76.7	213.8	324.2	349.6	336.4	19.82	127.595	6.799	42.041
17	60.7	207.1	321.0	348.2	335.9	19.83	127.596	6.799	42.040
Mai 3	44.7	200.4	317.8	346.9	335.5	19.84	127.598	6.799	42.038
19	28.7	193.7	314.7	345.5	335.0	19.86	127.600	6.799	42.037
Juni 4	12.7	187.0	311.5	344.1	334.6	19.87	127.602	6.799	42.036
20	356.7	180.4	308.3	342.8	334.1	19.88	127.604	6.798	42.034
Juli 6	340.7	173.6	305.1	341.4	333.6	19.90	127.606	6.798	42.033
22	324.7	166.9	301.9	340.1	333.2	19.91	127.607	6.798	42.032
Aug. 7	308.7	160.3	298.8	338.7	332.7	19.93	127.609	6.798	42.031
23	292.7	153.6	295.6	337.3	332.3	19.94	127.611	6.798	42.029
Sept. 8	276.7	146.9	292.4	336.0	331.8	19.95	127.613	6.798	42.028
24	260.7	140.2	289.2	334.6	331.3	19.97	127.615	6.797	42.027
Okt. 10	244.7	133.5	286.0	333.3	330.9	19.98	127.616	6.797	42.026
26	228.7	126.8	282.9	331.9	330.4	19.99	127.618	6.797	42.024
Nov. 11	212.7	120.1	279.7	330.5	330.0	20.01	127.620	6.797	42.023
27	196.7	113.4	276.5	329.2	329.5	20.02	127.622	6.797	42.022
Dez. 13	180.7	106.8	273.3	327.8	329.0	20.03	127.624	6.796	42.021
29	164.7	100.1	270.2	326.5	328.6	20.05	127.625	6.796	42.019
45	148.7	93.4	267.0	325.1	328.1	20.06	127.627	6.796	42.018

$\log \frac{1}{1+\zeta}$, in Einheiten der 5. Dezimale

$u-U$		Mimas	Encel.	Tethys	Dione	Rhea	$u-U$	
0°	360°	−6+	−7+	−9+	−11+	−16+	180°	180°
10	350	−6+	−7+	−9+	−11+	−16+	170	190
20	340	−5+	−7+	−8+	−11+	−15+	160	200
30	330	−5+	−6+	−8+	−10+	−14+	150	210
40	320	−4+	−6+	−7+	− 9+	−12+	140	220
50	310	−3+	−5+	−6+	− 8+	−10+	130	230
60	300	−3+	−4+	−4+	− 6+	− 8+	120	240
70	290	−2+	−3+	−3+	− 4+	− 6+	110	250
80	280	−1+	−1+	−2+	− 2+	− 3+	100	260
90	270	0	0	0	0	0	90	270

M	Mimas ±(v−M)	Mimas log r/a	Enceladus ±(v−M)	Enceladus log r/a	Dione ±(v−M)	Dione log r/a	Rhea ±(v−M)	Rhea log r/a	M
0°	0°.000	9.99167	0°.000	9.99800	0°.000	9.99913	0°.000	9.99961	360°
2	0.078	9.99167	0.018	9.99800	0.008	9.99913	0.004	9.99961	358
4	0.156	9.99169	0.037	9.99800	0.016	9.99913	0.007	9.99961	356
6	0.233	9.99172	0.055	9.99801	0.024	9.99913	0.011	9.99961	354
8	0.310	9.99175	0.074	9.99802	0.032	9.99914	0.014	9.99961	352
10	0.387	9.99180	0.092	9.99803	0.040	9.99914	0.018	9.99961	350
12	0.463	9.99186	0.110	9.99804	0.048	9.99915	0.021	9.99962	348
14	0.539	9.99193	0.128	9.99806	0.056	9.99916	0.025	9.99962	346
16	0.614	9.99201	0.146	9.99808	0.063	9.99916	0.028	9.99962	344
18	0.688	9.99210	0.164	9.99810	0.071	9.99917	0.032	9.99963	342
20	0.762	9.99220	0.181	9.99812	0.079	9.99918	0.035	9.99963	340
22	0.834	9.99230	0.199	9.99814	0.086	9.99919	0.039	9.99964	338
24	0.905	9.99242	0.216	9.99817	0.093	9.99921	0.042	9.99964	336
26	0.975	9.99255	0.232	9.99820	0.101	9.99922	0.045	9.99965	334
28	1.044	9.99269	0.249	9.99823	0.108	9.99923	0.048	9.99966	332
30	1.111	9.99284	0.265	9.99827	0.115	9.99925	0.052	9.99966	330
32	1.177	9.99299	0.281	9.99830	0.122	9.99926	0.055	9.99967	328
34	1.242	9.99316	0.296	9.99834	0.128	9.99928	0.058	9.99968	326
36	1.305	9.99333	0.311	9.99838	0.135	9.99930	0.061	9.99968	324
38	1.366	9.99351	0.326	9.99842	0.141	9.99931	0.064	9.99969	322
40	1.425	9.99370	0.340	9.99847	0.148	9.99933	0.066	9.99970	320
42	1.483	9.99390	0.354	9.99852	0.154	9.99935	0.069	9.99971	318
44	1.538	9.99410	0.368	9.99856	0.159	9.99937	0.072	9.99972	316
46	1.592	9.99431	0.381	9.99861	0.165	9.99940	0.074	9.99973	314
48	1.644	9.99453	0.393	9.99866	0.171	9.99942	0.077	9.99974	312
50	1.693	9.99476	0.405	9.99872	0.176	9.99944	0.079	9.99975	310
52	1.741	9.99499	0.417	9.99877	0.181	9.99947	0.081	9.99976	308
54	1.786	9.99523	0.428	9.99883	0.186	9.99949	0.083	9.99977	306
56	1.829	9.99547	0.438	9.99889	0.190	9.99951	0.085	9.99978	304
58	1.870	9.99572	0.448	9.99895	0.195	9.99954	0.087	9.99979	302
60	1.908	9.99598	0.458	9.99901	0.199	9.99957	0.089	9.99980	300
62	1.944	9.99623	0.467	9.99907	0.203	9.99959	0.091	9.99982	298
64	1.977	9.99650	0.475	9.99913	0.206	9.99962	0.093	9.99983	296
66	2.008	9.99676	0.483	9.99919	0.210	9.99965	0.094	9.99984	294
68	2.036	9.99704	0.490	9.99926	0.213	9.99967	0.096	9.99985	292
70	2.062	9.99731	0.496	9.99932	0.216	9.99970	0.097	9.99987	290
72	2.086	9.99759	0.502	9.99939	0.218	9.99973	0.098	9.99988	288
74	2.106	9.99787	0.508	9.99946	0.220	9.99976	0.099	9.99989	286
76	2.124	9.99815	0.512	9.99952	0.222	9.99979	0.100	9.99991	284
78	2.140	9.99843	0.516	9.99959	0.224	9.99982	0.101	9.99992	282
80	2.153	9.99872	0.520	9.99966	0.226	9.99985	0.102	9.99993	280
82	2.163	9.99900	0.523	9.99973	0.227	9.99988	0.102	9.99995	278
84	2.170	9.99929	0.525	9.99980	0.228	9.99991	0.103	9.99996	276
86	2.175	9.99958	0.526	9.99987	0.229	9.99994	0.103	9.99997	274
88	2.177	9.99987	0.527	9.99994	0.229	9.99997	0.103	9.99999	272
90	2.177	0.00016	0.527	0.00001	0.229	0.00000	0.103	0.00000	270

M	Mimas		Enceladus		Dione		Rhea		M
	$\pm(v-M)$	$\log\frac{r}{a}$	$\pm(v-M)$	$\log\frac{r}{a}$	$\pm(v-M)$	$\log\frac{r}{a}$	$\pm(v-M)$	$\log\frac{r}{a}$	
90°	2.177°	0.00016	0.527°	0.00001	0.229°	0.00000	0.103°	0.00000	270°
92	2.174	0.00044	0.527	0.00008	0.229	0.00003	0.103	0.00001	268
94	2.168	0.00073	0.526	0.00015	0.229	0.00006	0.103	0.00003	266
96	2.159	0.00101	0.524	0.00022	0.228	0.00009	0.103	0.00004	264
98	2.148	0.00130	0.522	0.00029	0.227	0.00012	0.102	0.00005	262
100	2.135	0.00158	0.519	0.00035	0.226	0.00015	0.102	0.00007	260
102	2.119	0.00186	0.515	0.00042	0.224	0.00018	0.101	0.00008	258
104	2.100	0.00214	0.511	0.00049	0.222	0.00021	0.100	0.00009	256
106	2.079	0.00241	0.506	0.00056	0.220	0.00024	0.099	0.00011	254
108	2.055	0.00268	0.500	0.00062	0.218	0.00027	0.098	0.00012	252
110	2.029	0.00295	0.494	0.00069	0.215	0.00030	0.097	0.00013	250
112	2.000	0.00321	0.488	0.00075	0.212	0.00033	0.096	0.00015	248
114	1.969	0.00347	0.480	0.00082	0.209	0.00035	0.094	0.00016	246
116	1.936	0.00373	0.473	0.00088	0.206	0.00038	0.093	0.00017	244
118	1.901	0.00398	0.464	0.00094	0.202	0.00041	0.091	0.00018	242
120	1.863	0.00422	0.455	0.00100	0.198	0.00044	0.089	0.00019	240
122	1.823	0.00446	0.446	0.00106	0.194	0.00046	0.087	0.00021	238
124	1.781	0.00469	0.436	0.00112	0.190	0.00049	0.085	0.00022	236
126	1.737	0.00492	0.425	0.00118	0.185	0.00051	0.083	0.00023	234
128	1.691	0.00514	0.414	0.00123	0.180	0.00053	0.081	0.00024	232
130	1.643	0.00536	0.402	0.00129	0.175	0.00056	0.079	0.00025	230
132	1.593	0.00557	0.390	0.00134	0.170	0.00058	0.077	0.00026	228
134	1.541	0.00577	0.378	0.00139	0.164	0.00060	0.074	0.00027	226
136	1.487	0.00597	0.365	0.00144	0.159	0.00062	0.072	0.00028	224
138	1.431	0.00616	0.351	0.00148	0.153	0.00065	0.069	0.00029	222
140	1.374	0.00634	0.337	0.00153	0.147	0.00067	0.066	0.00030	220
142	1.316	0.00651	0.323	0.00157	0.141	0.00068	0.064	0.00031	218
144	1.256	0.00668	0.308	0.00162	0.134	0.00070	0.061	0.00032	216
146	1.194	0.00683	0.293	0.00166	0.128	0.00072	0.058	0.00032	214
148	1.131	0.00698	0.278	0.00169	0.121	0.00074	0.055	0.00033	212
150	1.067	0.00713	0.262	0.00173	0.114	0.00075	0.052	0.00034	210
152	1.001	0.00726	0.246	0.00176	0.107	0.00077	0.048	0.00034	208
154	0.934	0.00738	0.230	0.00179	0.100	0.00078	0.045	0.00035	206
156	0.867	0.00750	0.213	0.00182	0.093	0.00079	0.042	0.00036	204
158	0.798	0.00760	0.196	0.00185	0.086	0.00080	0.039	0.00036	202
160	0.728	0.00770	0.179	0.00187	0.078	0.00081	0.035	0.00037	200
162	0.658	0.00779	0.162	0.00190	0.071	0.00082	0.032	0.00037	198
164	0.587	0.00787	0.144	0.00192	0.063	0.00083	0.028	0.00037	196
166	0.515	0.00794	0.127	0.00193	0.055	0.00084	0.025	0.00038	194
168	0.442	0.00800	0.109	0.00195	0.048	0.00085	0.021	0.00038	192
170	0.369	0.00805	0.091	0.00196	0.040	0.00085	0.018	0.00038	190
172	0.296	0.00810	0.073	0.00197	0.032	0.00086	0.014	0.00039	188
174	0.222	0.00813	0.055	0.00198	0.024	0.00086	0.011	0.00039	186
176	0.148	0.00815	0.037	0.00199	0.016	0.00086	0.007	0.00039	184
178	0.074	0.00817	0.018	0.00199	0.008	0.00087	0.004	0.00039	182
180	0.000	0.00817	0.000	0.00199	0.000	0.00087	0.000	0.00039	180

0h Welt-Zeit	HYPERION					
	U		*B*		*P*	
1929						
Febr. 28	140°.482	139	+26°.466	13	+5°.370	11
März 2	140.621	133	26.453	13	5.381	11
4	140.754	126	26.440	11	5.392	10
6	140.880	121	26.429	11	5.402	9
8	141.001	113	26.418	10	5.411	8
10	141.114	107	+26.408	10	+5.419	8
12	141.221	99	26.398	9	5.427	7
14	141.320	93	26.389	9	5.434	7
16	141.413	86	26.380	9	5.441	6
18	141.499	78	26.371	8	5.447	6
20	141.577	71	+26.363	8	+5.453	6
22	141.648	64	26.355	7	5.459	5
24	141.712	57	26.348	7	5.464	4
26	141.769	49	26.341	6	5.468	4
28	141.818	42	26.335	6	5.472	4
30	141.860	35	+26.329	5	+5.476	3
April 1	141.895	28	26.324	4	5.479	2
3	141.923	20	26.320	4	5.481	1
5	141.943	13	26.316	2	5.482	1
7	141.956	6	26.314	2	5.483	1
9	141.962	2	+26.312	1	+5.484	0
11	141.960	9	26.311	0	5.484	1
13	141.951	15	26.311	0	5.483	1
15	141.936	24	26.311	1	5.482	2
17	141.912	31	26.312	2	5.480	2
19	141.881	38	+26.314	2	+5.478	3
21	141.843	45	26.316	3	5.475	4
23	141.798	51	26.319	3	5.471	4
25	141.747	58	26.322	4	5.467	4
27	141.689	64	26.326	4	5.463	4
29	141.625	71	+26.330	5	+5.459	5
Mai 1	141.554	78	26.335	5	5.454	6
3	141.476	84	26.340	7	5.448	6
5	141.392	91	26.347	7	5.442	7
7	141.301	96	26.354	8	5.435	7
9	141.205	103	+26.362	8	+5.428	8
11	141.102	110	26.370	9	5.420	8
13	140.992	114	26.379	9	5.412	9
15	140.878	120	26.388	10	5.403	9
17	140.758		+26.398		+5.394	

0h Welt-Zeit	HYPERION					
	U		*B*		*P*	
1929						
Mai 17	140°.758	124	+26°.398	10	+5°.394	10
19	140.634	128	26.408	10	5.384	10
21	140.506	133	26.418	11	5.374	10
23	140.373	136	26.429	11	5.364	11
25	140.237	141	26.440	12	5.353	11
27	140.096	144	+26.452	11	+5.342	11
29	139.952	148	26.463	12	5.331	11
31	139.804	151	26.475	12	5.320	12
Juni 2	139.653	154	26.487	13	5.308	13
4	139.499	156	26.500	13	5.295	13
6	139.343	158	+26.513	13	+5.282	12
8	139.185	160	26.526	13	5.270	12
10	139.025	162	26.539	13	5.258	13
12	138.863	163	26.552	13	5.245	13
14	138.700	164	26.565	13	5.232	13
16	138.536	165	+26.578	13	+5.219	13
18	138.371	165	26.591	13	5.206	14
20	138.206	163	26.604	13	5.192	13
22	138.043	164	26.617	14	5.179	13
24	137.879	163	26.631	13	5.166	13
26	137.716	162	+26.644	14	+5.153	13
28	137.554	161	26.658	12	5.140	13
30	137.393	159	26.670	11	5.127	13
Juli 2	137.234	158	26.681	11	5.114	13
4	137.076	155	26.692	12	5.101	14
6	136.921	152	+26.704	12	+5.087	13
8	136.769	148	26.716	12	5.074	13
10	136.621	145	26.728	12	5.061	12
12	136.476	141	26.740	12	5.049	12
14	136.335	137	26.752	12	5.037	11
16	136.198	134	+26.764	11	+5.026	11
18	136.064	129	26.775	11	5.015	11
20	135.935	125	26.786	10	5.004	10
22	135.810	120	26.796	10	4.994	10
24	135.690	115	26.806	10	4.984	10
26	135.575	110	+26.816	9	+4.974	9
28	135.465	104	26.825	9	4.965	8
30	135.361	97	26.834	9	4.957	8
Aug. 1	135.264	91	26.843	9	4.949	7
3	135.173		+26.852		+4.942	

0h Welt-Zeit	HYPERION U	Δ	HYPERION B	Δ	HYPERION P	Δ	0h Welt-Zeit	JAPETUS U	Δ	JAPETUS B	Δ	JAPETUS P	Δ
1929							1929						
Aug. 3	135°.173	85	+26°.852	9	+4°.942	7	Febr. 28	221°.482	130	+12°.990	27	+11°.670	22
5	135.088	80	26.861	9	4.935	7	März 2	221.612	120	12.963	25	11.648	21
7	135.008	72	26.870	9	4.928	6	4	221.732	112	12.938	24	11.627	20
9	134.936	67	26.879	9	4.922	6	6	221.844	106	12.914	23	11.607	20
11	134.869	60	26.888	8	4.916	6	8	221.950	100	12.891	22	11.587	17
13	134.809	54	+26.896	8	+4.910	5	10	222.050	95	+12.869	21	+11.570	17
15	134.755	46	26.904	8	4.905	4	12	222.145	89	12.848	20	11.553	17
17	134.709	40	26.912	7	4.901	3	14	222.234	84	12.828	18	11.536	16
19	134.669	33	26.919	7	4.898	3	16	222.318	77	12.810	17	11.520	15
21	134.636	25	26.926	6	4.895	2	18	222.395	70	12.793	16	11.505	15
23	134.611	16	+26.932	6	+4.893	1	20	222.465	64	+12.777	14	+11.490	14
25	134.595	11	26.938	6	4.892	0	22	222.529	59	12.763	12	11.476	13
27	134.584	2	26.944	6	4.892	0	24	222.588	52	12.751	11	11.463	11
29	134.582	3	26.950	6	4.892	1	26	222.640	45	12.740	10	11.452	9
31	134.585	10	26.956	6	4.893	1	28	222.685	39	12.730	9	11.443	7
Sept. 2	134.595	18	+26.962	6	+4.894	2	30	222.724	33	+12.721	9	+11.436	5
4	134.613	25	26.968	5	4.896	2	April 1	222.757	25	12.712	8	11.431	4
6	134.638	33	26.973	5	4.898	3	3	222.782	18	12.704	7	11.427	3
8	134.671	41	26.978	4	4.901	4	5	222.800	12	12.697	5	11.424	2
10	134.712	49	26.982	4	4.905	5	7	222.812	6	12.692	3	11.422	1
12	134.761	57	+26.986	3	+4.910	5	9	222.818	0	+12.689	1	+11.421	1
14	134.818	63	26.989	3	4.915	6	11	222.818	7	12.688	0	11.422	2
16	134.881	68	26.992	2	4.921	6	13	222.811	13	12.688	1	11.424	3
18	134.949	76	26.994	2	4.927	7	15	222.798	20	12.689	2	11.427	4
20	135.025	83	26.996	2	4.934	8	17	222.778	26	12.691	4	11.431	5
22	135.108	90	+26.998	2	+4.942	8	19	222.752	33	+12.695	6	+11.436	7
24	135.198	97	27.000	3	4.950	9	21	222.719	40	12.701	8	11.443	8
26	135.295	104	27.003	3	4.959	9	23	222.679	47	12.709	10	11.451	9
28	135.399	111	27.006	2	4.968	10	25	222.632	53	12.719	11	11.460	10
30	135.510	117	27.008	2	4.978	11	27	222.579	60	12.730	12	11.470	11
Okt. 2	135.627	123	+27.010	1	+4.989	11	29	222.519	66	+12.742	12	+11.481	11
4	135.750	129	27.009	1	5.000	11	Mai 1	222.453	72	12.754	13	11.492	12
6	135.879	136	27.008	2	5.011	12	3	222.381	78	12.767	15	11.504	13
8	136.015	142	27.006	2	5.023	12	5	222.303	83	12.782	15	11.517	14
10	136.157	148	27.004	2	5.035	13	7	222.220	88	12.797	16	11.531	15
12	136.305	154	+27.002	1	+5.048	13	9	222.132	93	+12.813	17	+11.546	16
14	136.459	159	27.001	2	5.061	14	11	222.039	98	12.830	18	11.562	18
16	136.618	165	26.999	3	5.075	14	13	221.941	103	12.848	19	11.580	19
18	136.783	172	26.996	4	5.089	15	15	221.838	107	12.867	20	11.599	20
20	136.955		+26.992		+5.104		17	221.731		+12.887		+11.619	

0h Welt-Zeit	JAPETUS					
	U	Δ	B	Δ	P	Δ
1929	°		°		°	
Mai 17	221.731	111	+12.887	21	+11.619	21
19	221.620	115	12.908	22	11.640	21
21	221.505	119	12.930	24	11.661	22
23	221.386	122	12.954	26	11.683	22
25	221.264	125	12.980	28	11.705	23
27	221.139	129	+13.008	28	+11.728	24
29	221.010	133	13.036	28	11.752	25
31	220.877	137	13.064	28	11.777	26
Juni 2	220.740	140	13.092	28	11.803	26
4	220.600	143	13.120	28	11.829	24
6	220.457	145	+13.148	28	+11.853	26
8	220.312	145	13.176	28	11.879	26
10	220.167	147	13.204	28	11.905	26
12	220.020	147	13.232	29	11.931	26
14	219.873	147	13.261	29	11.957	26
16	219.726	147	+13.290	30	+11.983	26
18	219.579	147	13.320	30	12.009	26
20	219.432	148	13.350	30	12.035	26
22	219.284	148	13.380	30	12.061	26
24	219.136	148	13.410	30	12.087	26
26	218.988	146	+13.440	30	+12.113	26
28	218.842	144	13.470	30	12.139	25
30	218.698	144	13.500	29	12.164	24
Juli 2	218.554	141	13.529	29	12.188	24
4	218.413	139	13.558	28	12.212	23
6	218.274	138	+13.586	28	+12.235	22
8	218.136	134	13.614	28	12.257	22
10	218.002	131	13.642	28	12.279	22
12	217.871	127	13.670	27	12.301	21
14	217.744	125	13.697	27	12.322	21
16	217.619	121	+13.724	26	+12.343	20
18	217.498	118	13.750	26	12.363	20
20	217.380	113	13.776	26	12.383	19
22	217.267	107	13.802	25	12.402	19
24	217.160	102	13.827	23	12.421	17
26	217.058	96	+13.850	23	+12.438	17
28	216.962	92	13.873	22	12.455	16
30	216.870	89	13.895	21	12.471	15
Aug. 1	216.781	83	13.916	20	12.486	14
3	216.698		+13.936		+12.500	

0h Welt-Zeit	JAPETUS					
	U	Δ	B	Δ	P	Δ
1929	°		°		°	
Aug. 3	216.698	77	+13.936	19	+12.500	13
5	216.621	71	13.955	17	12.513	12
7	216.550	65	13.972	16	12.525	11
9	216.485	58	13.988	16	12.536	10
11	216.427	52	14.004	15	12.546	10
13	216.375	46	+14.019	14	+12.556	9
15	216.329	41	14.033	13	12.565	8
17	216.288	35	14.046	12	12.573	6
19	216.253	28	14.058	10	12.579	5
21	216.225	22	14.068	8	12.584	4
23	216.203	16	+14.076	8	+12.588	3
25	216.187	8	14.084	7	12.591	1
27	216.179	2	14.091	6	12.592	1
29	216.177	4	14.097	5	12.593	0
31	216.181	10	14.102	4	12.593	2
Sept. 2	216.191	18	+14.106	2	+12.591	3
4	216.209	24	14.108	2	12.588	4
6	216.233	31	14.110	2	12.584	4
8	216.264	38	14.112	1	12.580	5
10	216.302	45	14.111	2	12.575	6
12	216.347	52	+14.109	2	+12.569	7
14	216.399	57	14.107	3	12.562	8
16	216.456	64	14.104	5	12.554	9
18	216.520	70	14.099	6	12.545	10
20	216.590	75	14.093	8	12.535	11
22	216.665	82	+14.085	10	+12.524	13
24	216.747	90	14.075	11	12.511	14
26	216.837	95	14.064	11	12.497	15
28	216.932	101	14.053	12	12.482	16
30	217.033	107	14.041	13	12.466	18
Okt. 2	217.140	112	+14.028	14	+12.448	18
4	217.252	118	14.014	14	12.430	19
6	217.370	123	14.000	15	12.411	20
8	217.493	129	13.985	17	12.391	21
10	217.622	135	13.968	19	12.370	22
12	217.757	140	+13.949	20	+12.348	23
14	217.897	145	13.929	22	12.325	24
16	218.042	150	13.907	24	12.301	25
18	218.192	155	13.883	24	12.276	26
20	218.347		+13.859		+12.250	

0h Welt-Zeit 1929	HYPERION $\alpha_{tr} - \alpha_{pl}$ (s)	Diff.	$\delta_{tr} - \delta_{pl}$ (″)	Diff.
Febr. 28	+13.1	−1.9	− 63	−15
März 1	+11.2	−2.7	− 78	−13
2	+ 8.5	−3.2	− 91	− 7
3	+ 5.3	−3.7	− 98	− 2
4	+ 1.6	−3.7	−100	+ 6
5	− 2.1	−3.6	− 94	+10
6	− 5.7	−3.2	− 84	+17
7	− 8.9	−2.7	− 67	+22
8	−11.6	−1.7	− 45	+26
9	−13.3	−0.5	− 19	+26
10	−13.8	+0.8	+ 7	+25
11	−13.0	+2.1	+ 32	+24
12	−10.9	+3.4	+ 56	+16
13	− 7.5	+4.4	+ 72	+ 8
14	− 3.1	+4.6	+ 80	− 3
15	+ 1.5	+4.7	+ 77	−11
16	+ 6.2	+3.7	+ 66	−19
17	+ 9.9	+3.0	+ 47	−26
18	+12.9	+1.6	+ 21	−28
19	+14.5	+0.4	− 7	−28
20	+14.9	−0.8	− 35	−22
21	+14.1	−1.8	− 57	−19
22	+12.3	−2.7	− 76	−14
23	+ 9.6	−3.3	− 90	−10
24	+ 6.3	−3.6	−100	− 3
25	+ 2.7	−3.9	−103	+ 3
26	− 1.2	−3.9	−100	+10
27	− 5.1	−3.5	− 90	+17
28	− 8.6	−2.9	− 73	+22
29	−11.5	−1.9	− 51	+25
30	−13.4	−0.8	− 26	+29
31	−14.2	+0.5	+ 3	+27
April 1	−13.7	+2.0	+ 30	+24
2	−11.7	+3.2	+ 54	+18
3	− 8.5	+4.2	+ 72	+ 9
4	− 4.3	+4.9	+ 81	+ 1
5	+ 0.6	+4.8	+ 82	−11
6	+ 5.4	+4.4	+ 71	−19
7	+ 9.8	+3.1	+ 52	−24
8	+12.9		+ 28	

0h Welt-Zeit 1929	HYPERION $\alpha_{tr} - \alpha_{pl}$ (s)	Diff.	$\delta_{tr} - \delta_{pl}$ (″)	Diff.
April 8	+12.9	+1.9	+ 28	−28
9	+14.8	+0.7	0	−27
10	+15.5	−0.6	− 27	−26
11	+14.9	−1.7	− 53	−23
12	+13.2	−2.6	− 76	−16
13	+10.6	−3.3	− 92	−10
14	+ 7.3	−3.7	−102	− 4
15	+ 3.6	−4.1	−106	+ 2
16	− 0.5	−4.0	−104	+ 9
17	− 4.5	−3.7	− 95	+15
18	− 8.2	−3.1	− 80	+22
19	−11.3	−2.3	− 58	+26
20	−13.6	−1.1	− 32	+29
21	−14.7	+0.3	− 3	+29
22	−14.4	+1.7	+ 26	+26
23	−12.7	+3.5	+ 52	+20
24	− 9.2	+4.2	+ 72	+12
25	− 5.0	+4.9	+ 84	+ 1
26	− 0.1	+5.2	+ 85	− 9
27	+ 5.1	+4.4	+ 76	−19
28	+ 9.5	+3.5	+ 57	−25
29	+13.0	+2.2	+ 32	−28
30	+15.2	+0.8	+ 4	−28
Mai 1	+16.0	−0.4	− 24	−26
2	+15.6	−1.6	− 50	−24
3	+14.0	−2.6	− 74	−18
4	+11.4	−3.3	− 92	−12
5	+ 8.1	−3.9	−104	− 5
6	+ 4.2	−4.2	−109	+ 1
7	0.0	−4.1	−108	+ 9
8	− 4.1	−3.9	− 99	+15
9	− 8.0	−3.3	− 84	+22
10	−11.3	−2.5	− 62	+26
11	−13.8	−1.2	− 36	+29
12	−15.0	+0.1	− 7	+30
13	−14.9	+1.6	+ 23	+27
14	−13.3	+3.2	+ 50	+23
15	−10.1	+4.4	+ 73	+12
16	− 5.7	+5.0	+ 85	+ 3
17	− 0.7		+ 88	

0h Welt-Zeit 1929	HYPERION $\alpha_{tr} - \alpha_{pl}$ (s)	Diff.	$\delta_{tr} - \delta_{pl}$ (″)	Diff.
Mai 17	− 0.7	+5.2	+ 88	− 9
18	+ 4.5	+4.8	+ 79	−17
19	+ 9.3	+3.7	+ 62	−25
20	+13.0	+2.4	+ 37	−29
21	+15.4	+0.9	+ 8	−29
22	+16.3	−0.3	− 21	−29
23	+16.0	−1.5	− 50	−24
24	+14.5	−2.6	− 74	−19
25	+11.9	−3.4	− 93	−13
26	+ 8.5	−3.9	−106	− 6
27	+ 4.6	−4.2	−112	+ 1
28	+ 0.4	−4.3	−111	+ 8
29	− 3.9	−4.0	−103	+15
30	− 7.9	−3.4	− 88	+22
31	−11.3	−2.5	− 66	+27
Juni 1	−13.8	−1.5	− 39	+29
2	−15.3	0.0	− 10	+30
3	−15.3	+1.6	+ 20	+30
4	−13.7	+3.2	+ 50	+23
5	−10.5	+4.3	+ 73	+14
6	− 6.2	+5.1	+ 87	+ 2
7	− 1.1	+5.4	+ 89	− 7
8	+ 4.3	+4.7	+ 82	−17
9	+ 9.0	+3.9	+ 65	−25
10	+12.9	+2.5	+ 40	−29
11	+15.4	+1.1	+ 11	−30
12	+16.5	−0.3	− 19	−29
13	+16.2	−1.4	− 48	−25
14	+14.8	−2.5	− 73	−19
15	+12.3	−3.4	− 92	−14
16	+ 8.9	−3.9	−106	− 7
17	+ 5.0	−4.2	−113	0
18	+ 0.8	−4.4	−113	+ 7
19	− 3.6	−4.2	−106	+14
20	− 7.8	−3.5	− 92	+22
21	−11.3	−2.5	− 70	+27
22	−13.8	−1.4	− 43	+30
23	−15.2	−0.2	− 13	+31
24	−15.4	+1.5	+ 18	+28
25	−13.9		+ 46	

HYPERION

0h Welt-Zeit 1929	$\alpha_{tr}-\alpha_{pl}$	Diff.	$\delta_{tr}-\delta_{pl}$	Diff.
Juni 25	−13.9	+3.0	+ 46	+25
26	−10.9	+4.3	+ 71	+15
27	− 6.6	+5.1	+ 86	+ 5
28	− 1.5	+5.3	+ 91	− 8
29	+ 3.8	+4.9	+ 83	−16
30	+ 8.7	+3.9	+ 67	−24
Juli 1	+12.6	+2.6	+ 43	−29
2	+15.2	+1.2	+ 14	−29
3	+16.4	−0.1	− 15	−30
4	+16.3	−1.5	− 45	−26
5	+14.8	−2.4	− 71	−20
6	+12.4	−3.3	− 91	−15
7	+ 9.1	−3.9	−106	− 7
8	+ 5.2	−4.2	−113	0
9	+ 1.0	−4.3	−113	+ 7
10	− 3.3	−4.1	−106	+14
11	− 7.4	−3.5	− 92	+21
12	−10.9	−2.6	− 71	+26
13	−13.5	−1.6	− 45	+29
14	−15.1	−0.2	− 16	+30
15	−15.3	+1.4	+ 14	+30
16	−13.9	+2.8	+ 44	+24
17	−11.1	+4.1	+ 68	+17
18	− 7.0	+4.9	+ 85	+ 5
19	− 2.1	+5.2	+ 90	− 5
20	+ 3.1	+4.9	+ 85	−16
21	+ 8.0	+4.1	+ 69	−24
22	+12.1	+2.7	+ 45	−29
23	+14.8	+1.3	+ 16	−29
24	+16.1	0.0	− 13	−28
25	+16.1	−1.3	− 41	−26
26	+14.8	−2.4	− 67	−21
27	+12.4	−3.1	− 88	−15
28	+ 9.3	−3.7	−103	− 8
29	+ 5.6	−4.2	−111	− 1
30	+ 1.4	−4.2	−112	+ 7
31	− 2.8	−4.0	−105	+13
Aug. 1	− 6.8	−3.5	− 92	+19
2	−10.3	−2.7	− 73	+25
3	−13.0		− 48	

HYPERION

0h Welt-Zeit 1929	$\alpha_{tr}-\alpha_{pl}$	Diff.	$\delta_{tr}-\delta_{pl}$	Diff.
Aug. 3	−13.0	−1.6	− 48	+29
4	−14.6	−0.4	− 19	+29
5	−15.0	+1.1	+ 10	+28
6	−13.9	+2.5	+ 38	+26
7	−11.4	+3.9	+ 64	+16
8	− 7.5	+4.9	+ 80	+ 8
9	− 2.6	+5.1	+ 88	− 5
10	+ 2.5	+4.8	+ 83	−13
11	+ 7.3	+4.0	+ 70	−22
12	+11.3	+2.8	+ 48	−27
13	+14.1	+1.5	+ 21	−28
14	+15.6	+0.1	− 7	−29
15	+15.7	−1.1	− 36	−25
16	+14.6	−2.1	− 61	−21
17	+12.5	−2.9	− 82	−16
18	+ 9.6	−3.6	− 98	− 9
19	+ 6.0	−4.0	−107	− 2
20	+ 2.0	−4.0	−109	+ 4
21	− 2.0	−3.9	−105	+13
22	− 5.9	−3.5	− 92	+17
23	− 9.4	−2.8	− 75	+24
24	−12.2	−1.8	− 51	+27
25	−14.0	−0.6	− 24	+29
26	−14.6	+0.8	+ 5	+28
27	−13.8	+2.3	+ 33	+24
28	−11.5	+3.5	+ 57	+19
29	− 8.0	+4.5	+ 76	+ 8
30	− 3.5	+5.0	+ 84	− 1
31	+ 1.5	+4.7	+ 83	−12
Sept. 1	+ 6.2	+4.1	+ 71	−20
2	+10.3	+3.0	+ 51	−25
3	+13.3	+1.6	+ 26	−28
4	+14.9	+0.3	− 2	−27
5	+15.2	−0.8	− 29	−26
6	+14.4	−1.8	− 55	−21
7	+12.6	−2.6	− 76	−16
8	+10.0	−3.3	− 92	− 9
9	+ 6.7	−3.8	−101	− 5
10	+ 2.9	−3.9	−106	+ 3
11	− 1.0		−103	

HYPERION

0h Welt-Zeit 1929	$\alpha_{tr}-\alpha_{pl}$	Diff.	$\delta_{tr}-\delta_{pl}$	Diff.
Sept. 11	− 1.0	−3.8	−103	+10
12	− 4.8	−3.5	− 93	+18
13	− 8.3	−2.9	− 75	+19
14	−11.2	−2.0	− 56	+27
15	−13.2	−0.9	− 29	+27
16	−14.1	+0.5	− 2	+27
17	−13.6	+1.8	+ 25	+25
18	−11.8	+3.2	+ 50	+19
19	− 8.6	+4.1	+ 69	+12
20	− 4.5	+4.7	+ 81	0
21	+ 0.2	+4.7	+ 81	− 8
22	+ 4.9	+4.1	+ 73	−18
23	+ 9.0	+3.2	+ 55	−23
24	+12.2	+2.0	+ 32	−26
25	+14.2	+0.7	+ 6	−27
26	+14.9	−0.5	− 21	−25
27	+14.4	−1.5	− 46	−22
28	+12.9	−2.4	− 68	−17
29	+10.5	−3.0	− 85	−12
30	+ 7.5	−3.5	− 97	− 5
Okt. 1	+ 4.0	−3.7	−102	+ 1
2	+ 0.3	−3.7	−101	+ 7
3	− 3.4	−3.5	− 94	+14
4	− 6.9	−3.0	− 80	+20
5	− 9.9	−2.3	− 60	+23
6	−12.2	−1.2	− 37	+27
7	−13.4	0.0	− 10	+27
8	−13.4	+1.4	+ 17	+25
9	−12.0	+2.7	+ 42	+21
10	− 9.3	+3.7	+ 63	+12
11	− 5.6	+4.4	+ 75	+ 5
12	− 1.2	+4.6	+ 80	− 6
13	+ 3.4	+4.2	+ 74	−14
14	+ 7.6	+3.3	+ 60	−22
15	+10.9	+2.3	+ 38	−27
16	+13.2	+1.1	+ 11	−25
17	+14.3	0.0	− 14	−23
18	+14.3	−1.1	− 37	−22
19	+13.2	−2.0	− 59	−18
20	+11.2		− 77	

0^h Welt-Zeit 1929	JAPETUS $\alpha_{tr} - \alpha_{pl}$ (s)	Diff.	$\delta_{tr} - \delta_{pl}$ (″)	Diff.
Febr. 28	−32.9	−0.8	+ 56	+10
März 1	−33.7	−0.5	+ 66	+ 9
2	−34.2	−0.3	+ 75	+ 9
3	−34.5	−0.2	+ 84	+ 9
4	−34.7	0.0	+ 93	+ 8
5	−34.7	+0.2	+101	+ 8
6	−34.5	+0.4	+109	+ 7
7	−34.1	+0.6	+116	+ 6
8	−33.5	+0.8	+122	+ 6
9	−32.7	+1.0	+128	+ 5
10	−31.7	+1.2	+133	+ 4
11	−30.5	+1.4	+137	+ 3
12	−29.1	+1.5	+140	+ 3
13	−27.6	+1.6	+143	+ 2
14	−26.0	+1.8	+145	+ 1
15	−24.2	+2.0	+146	0
16	−22.2	+2.1	+146	− 1
17	−20.1	+2.3	+145	− 1
18	−17.8	+2.4	+144	− 3
19	−15.4	+2.4	+141	− 3
20	−13.0	+2.6	+138	− 4
21	−10.4	+2.6	+134	− 5
22	− 7.8	+2.6	+129	− 6
23	− 5.2	+2.7	+123	− 6
24	− 2.5	+2.7	+117	− 7
25	+ 0.2	+2.8	+110	− 8
26	+ 3.0	+2.8	+102	− 8
27	+ 5.8	+2.7	+ 94	− 9
28	+ 8.5	+2.6	+ 85	−10
29	+11.1	+2.6	+ 75	−10
30	+13.7	+2.5	+ 65	−11
31	+16.2	+2.5	+ 54	−11
April 1	+18.7	+2.3	+ 43	−11
2	+21.0	+2.2	+ 32	−12
3	+23.2	+2.0	+ 20	−12
4	+25.2	+1.9	+ 8	−12
5	+27.1	+1.7	− 4	−12
6	+28.8	+1.6	− 16	−11
7	+30.4	+1.3	− 27	−12
8	+31.7		− 39	

0^h Welt-Zeit 1929	JAPETUS $\alpha_{tr} - \alpha_{pl}$ (s)	Diff.	$\delta_{tr} - \delta_{pl}$ (″)	Diff.
April 8	+31.7	+1.1	− 39	−11
9	+32.8	+0.9	− 50	−11
10	+33.7	+0.7	− 61	−11
11	+34.4	+0.6	− 72	−11
12	+34.8	+0.2	− 83	−10
13	+35.0	0.0	− 93	− 9
14	+35.0	−0.3	−102	− 8
15	+34.7	−0.6	−110	− 8
16	+34.1	−0.7	−118	− 7
17	+33.4	−1.0	−125	− 6
18	+32.4	−1.3	−131	− 6
19	+31.1	−1.5	−137	− 5
20	+29.6	−1.5	−142	− 3
21	+28.1	−1.8	−145	− 2
22	+26.3	−2.1	−147	− 2
23	+24.2	−2.3	−149	0
24	+21.9	−2.3	−149	0
25	+19.6	−2.5	−149	+ 2
26	+17.1	−2.6	−147	+ 2
27	+14.5	−2.7	−145	+ 3
28	+11.8	−2.9	−142	+ 5
29	+ 8.9	−2.9	−137	+ 5
30	+ 6.0	−2.9	−132	+ 6
Mai 1	+ 3.1	−2.9	−126	+ 7
2	+ 0.2	−3.0	−119	+ 8
3	− 2.8	−3.0	−111	+ 9
4	− 5.8	−2.9	−102	+ 9
5	− 8.7	−2.9	− 93	+10
6	−11.6	−2.8	− 83	+10
7	−14.4	−2.7	− 73	+11
8	−17.1	−2.7	− 62	+12
9	−19.8	−2.5	− 50	+12
10	−22.3	−2.4	− 38	+11
11	−24.7	−2.3	− 27	+12
12	−27.0	−2.1	− 15	+13
13	−29.1	−1.9	− 2	+13
14	−31.0	−1.7	+ 11	+12
15	−32.7	−1.5	+ 23	+12
16	−34.2	−1.4	+ 35	+12
17	−35.6		+ 47	

0^h Welt-Zeit 1929	JAPETUS $\alpha_{tr} - \alpha_{pl}$ (s)	Diff.	$\delta_{tr} - \delta_{pl}$ (″)	Diff.
Mai 17	−35.6	−1.1	+ 47	+12
18	−36.7	−0.9	+ 59	+11
19	−37.6	−0.7	+ 70	+11
20	−38.3	−0.4	+ 81	+11
21	−38.7	−0.2	+ 92	+10
22	−38.9	0.0	+102	+10
23	−38.9	+0.2	+112	+ 9
24	−38.7	+0.4	+121	+ 9
25	−38.3	+0.7	+130	+ 7
26	−37.6	+0.9	+137	+ 7
27	−36.7	+1.2	+144	+ 6
28	−35.5	+1.4	+150	+ 5
29	−34.1	+1.6	+155	+ 4
30	−32.5	+1.7	+159	+ 3
31	−30.8	+1.9	+162	+ 2
Juni 1	−28.9	+2.1	+164	+ 2
2	−26.8	+2.3	+166	0
3	−24.5	+2.5	+166	− 1
4	−22.0	+2.6	+165	− 1
5	−19.4	+2.7	+164	− 3
6	−16.7	+2.8	+161	− 4
7	−13.9	+2.9	+157	− 5
8	−11.0	+3.0	+152	− 6
9	− 8.0	+3.0	+146	− 7
10	− 5.0	+3.1	+139	− 8
11	− 1.9	+3.1	+131	− 8
12	+ 1.2	+3.1	+123	− 9
13	+ 4.3	+3.0	+114	−10
14	+ 7.3	+3.0	+104	−11
15	+10.3	+2.9	+ 93	−11
16	+13.2	+2.8	+ 82	−12
17	+16.0	+2.8	+ 70	−13
18	+18.8	+2.6	+ 57	−13
19	+21.4	+2.4	+ 44	−13
20	+23.8	+2.3	+ 31	−13
21	+26.1	+2.1	+ 18	−14
22	+28.2	+1.9	+ 4	−14
23	+30.1	+1.7	− 10	−14
24	+31.8	+1.5	− 24	−14
25	+33.3		− 38	

0h Welt-Zeit 1929	JAPETUS $\alpha_{tr} - \alpha_{pl}$		$\delta_{tr} - \delta_{pl}$	
Juni 25	+33.3s	+1.3s	− 38″	−13″
26	+34.6	+1.0	− 51	−13
27	+35.6	+0.8	− 64	−13
28	+36.4	+0.5	− 77	−12
29	+36.9	+0.2	− 89	−11
30	+37.1	0.0	−100	−11
Juli 1	+37.1	−0.3	−111	−10
2	+36.8	−0.6	−121	− 9
3	+36.2	−0.8	−130	− 8
4	+35.4	−1.0	−138	− 7
5	+34.4	−1.3	−145	− 6
6	+33.1	−1.5	−151	− 5
7	+31.6	−1.8	−156	− 4
8	+29.8	−2.0	−160	− 3
9	+27.8	−2.1	−163	− 2
10	+25.7	−2.3	−165	0
11	+23.4	−2.5	−165	− 1
12	+20.9	−2.6	−166	+ 2
13	+18.3	−2.8	−164	+ 3
14	+15.5	−2.9	−161	+ 4
15	+12.6	−2.9	−157	+ 5
16	+ 9.7	−3.0	−152	+ 6
17	+ 6.7	−3.0	−146	+ 7
18	+ 3.7	−3.1	−139	+ 8
19	+ 0.6	−3.0	−131	+ 8
20	− 2.4	−3.0	−123	+10
21	− 5.4	−3.0	−113	+10
22	− 8.4	−2.9	−103	+11
23	−11.3	−2.9	− 92	+11
24	−14.2	−2.8	− 81	+12
25	−17.0	−2.6	− 69	+12
26	−19.6	−2.5	− 57	+13
27	−22.1	−2.3	− 44	+13
28	−24.4	−2.2	− 31	+13
29	−26.6	−2.1	− 18	+14
30	−28.7	−1.9	− 4	+13
31	−30.6	−1.6	+ 9	+13
Aug. 1	−32.2	−1.4	+ 22	+13
2	−33.6	−1.3	+ 35	+13
3	−34.9		+ 48	

0h Welt-Zeit 1929	JAPETUS $\alpha_{tr} - \alpha_{pl}$		$\delta_{tr} - \delta_{pl}$	
Aug. 3	−34.9s	−1.0s	+ 48″	+12″
4	−35.9	−0.8	+ 60	+12
5	−36.7	−0.6	+ 72	+12
6	−37.3	−0.4	+ 84	+11
7	−37.7	−0.2	+ 95	+10
8	−37.9	+0.1	+105	+10
9	−37.8	+0.3	+115	+ 9
10	−37.5	+0.5	+124	+ 9
11	−37.0	+0.7	+133	+ 8
12	−36.3	+0.9	+141	+ 7
13	−35.4	+1.1	+148	+ 6
14	−34.3	+1.3	+154	+ 4
15	−33.0	+1.5	+158	+ 4
16	−31.5	+1.7	+162	+ 3
17	−29.8	+1.9	+165	+ 2
18	−27.9	+2.0	+167	+ 2
19	−25.9	+2.2	+169	0
20	−23.7	+2.3	+169	− 1
21	−21.4	+2.4	+168	− 2
22	−19.0	+2.5	+166	− 3
23	−16.5	+2.6	+163	− 4
24	−13.9	+2.7	+159	− 4
25	−11.2	+2.7	+155	− 6
26	− 8.5	+2.8	+149	− 7
27	− 5.7	+2.8	+142	− 7
28	− 2.9	+2.8	+135	− 8
29	− 0.1	+2.8	+127	− 9
30	+ 2.7	+2.8	+118	−10
31	+ 5.5	+2.7	+108	−10
Sept. 1	+ 8.2	+2.7	+ 98	−11
2	+10.9	+2.6	+ 87	−12
3	+13.5	+2.5	+ 75	−12
4	+16.0	+2.4	+ 63	−12
5	+18.4	+2.3	+ 51	−12
6	+20.7	+2.1	+ 39	−13
7	+22.8	+2.0	+ 26	−13
8	+24.8	+1.8	+ 13	−13
9	+26.6	+1.6	0	−13
10	+28.2	+1.4	− 13	−13
11	+29.6		− 26	

0h Welt-Zeit 1929	JAPETUS $\alpha_{tr} - \alpha_{pl}$		$\delta_{tr} - \delta_{pl}$	
Sept. 11	+29.6s	+1.2s	− 26″	−12″
12	+30.8	+1.0	− 38	−12
13	+31.8	+0.8	− 50	−12
14	+32.6	+0.6	− 62	−11
15	+33.2	+0.3	− 73	−11
16	+33.5	+0.1	− 84	−10
17	+33.6	−0.1	− 94	−10
18	+33.5	−0.3	−104	− 9
19	+33.2	−0.6	−113	− 8
20	+32.6	−0.8	−121	− 7
21	+31.8	−0.9	−128	− 6
22	+30.9	−1.2	−134	− 5
23	+29.7	−1.4	−139	− 5
24	+28.3	−1.6	−144	− 3
25	+26.7	−1.7	−147	− 3
26	+25.0	−1.9	−150	− 1
27	+23.1	−2.0	−151	− 1
28	+21.1	−2.2	−152	+ 1
29	+18.9	−2.3	−151	+ 1
30	+16.6	−2.4	−150	+ 3
Okt. 1	+14.2	−2.5	−147	+ 3
2	+11.7	−2.5	−144	+ 5
3	+ 9.2	−2.6	−139	+ 5
4	+ 6.6	−2.6	−134	+ 6
5	+ 4.0	−2.7	−128	+ 7
6	+ 1.3	−2.6	−121	+ 7
7	− 1.3	−2.6	−114	+ 8
8	− 3.9	−2.6	−106	+ 9
9	− 6.5	−2.5	− 97	+10
10	− 9.0	−2.5	− 87	+10
11	−11.5	−2.4	− 77	+10
12	−13.9	−2.3	− 67	+10
13	−16.2	−2.2	− 57	+11
14	−18.4	−2.1	− 46	+11
15	−20.5	−2.0	− 35	+11
16	−22.5	−1.8	− 24	+11
17	−24.3	−1.7	− 13	+12
18	−26.0	−1.5	− 1	+12
19	−27.5	−1.4	+ 11	+11
20	−28.9		+ 22	

Östliche Elongationen (in Welt-Zeit)

MIMAS

Datum	h	Datum	h	Datum	h	Datum	h	Datum	h
Febr. 28	11.4	April 14	17.1	Mai 29	22.6	Juli 14	4.0	Aug. 28	9.7
März 1	10.0	15	15.7	30	21.2	15	2.7	29	8.3
2	8.6	16	14.3	31	19.8	16	1.3	30	7.0
3	7.2	17	12.9	Juni 1	18.5	16	23.9	31	5.6
4	5.8	18	11.5	2	17.1	17	22.5	Sept. 1	4.2
5	4.5	19	10.1	3	15.7	18	21.1	2	2.8
6	3.1	20	8.7	4	14.3	19	19.8	3	1.5
7	1.7	21	7.3	5	12.9	20	18.4	4	0.1
8	0.3	22	6.0	6	11.5	21	17.0	4	22.7
8	23.0	23	4.6	7	10.1	22	15.6	5	21.3
9	21.6	24	3.2	8	8.7	23	14.2	6	20.0
10	20.2	25	1.8	9	7.4	24	12.8	7	18.6
11	18.8	26	0.5	10	6.0	25	11.4	8	17.2
12	17.4	26	23.1	11	4.6	26	10.0	9	15.8
13	16.1	27	21.7	12	3.2	27	8.7	10	14.4
14	14.7	28	20.3	13	1.8	28	7.3	11	13.1
15	13.3	29	18.9	14	0.4	29	5.9	12	11.7
16	11.9	30	17.6	14	23.0	30	4.5	13	10.3
17	10.5	Mai 1	16.2	15	21.6	31	3.2	14	8.9
18	9.1	2	14.8	16	20.3	Aug. 1	1.8	15	7.6
19	7.7	3	13.4	17	18.9	2	0.4	16	6.2
20	6.3	4	12.0	18	17.5	2	23.0	17	4.8
21	5.0	5	10.6	19	16.1	3	21.6	18	3.4
22	3.6	6	9.2	20	14.7	4	20.3	19	2.1
23	2.2	7	7.8	21	13.3	5	18.9	20	0.7
24	0.8	8	6.5	22	11.9	6	17.5	20	23.3
24	23.5	9	5.1	23	10.5	7	16.1	21	21.9
25	22.1	10	3.7	24	9.1	8	14.7	22	20.6
26	20.7	11	2.3	25	7.8	9	13.3	23	19.2
27	19.3	12	0.9	26	6.4	10	11.9	24	17.8
28	17.9	12	23.5	27	5.0	11	10.5	25	16.4
29	16.5	13	22.1	28	3.6	12	9.2	26	15.0
30	15.2	14	20.7	29	2.2	13	7.8	27	13.7
31	13.8	15	19.3	30	0.8	14	6.4	28	12.3
April 1	12.4	16	18.0	30	23.4	15	5.0	29	10.9
2	11.0	17	16.6	Juli 1	22.0	16	3.7	30	9.5
3	9.6	18	15.2	2	20.7	17	2.3	Okt. 1	8.2
4	8.2	19	13.8	3	19.3	18	0.9	2	6.8
5	6.8	20	12.4	4	17.9	18	23.5	3	5.4
6	5.5	21	11.0	5	16.5	19	22.1	4	4.0
7	4.1	22	9.6	6	15.1	20	20.8	5	2.7
8	2.7	23	8.2	7	13.7	21	19.4	6	1.3
9	1.3	24	6.9	8	12.3	22	18.0	6	23.9
10	0.0	25	5.5	9	10.9	23	16.6	7	22.5
10	22.6	26	4.1	10	9.5	24	15.2	8	21.2
11	21.2	27	2.7	11	8.2	25	13.8	9	19.8
12	19.8	28	1.4	12	6.8	26	12.5	10	18.4
13	18.4	29	0.0	13	5.4	27	11.1	11	17.0

Östliche Elongationen (in Welt-Zeit)

MIMAS

Datum		h
Okt.	12	15.6
	13	14.3
	14	12.9
	15	11.5
	16	10.1
	17	8.8
	18	7.4
	19	6.0
	20	4.6
	21	3.3
	22	1.9
	23	0.5
	23	23.1
	24	21.8
	25	20.4
	26	19.0

ENCELADUS

Datum		h
Febr.	28	22.0
März	2	6.9
	3	15.8
	5	0.7
	6	9.6
	7	18.5
	9	3.4
	10	12.2
	11	21.1
	13	6.0
	14	14.9
	15	23.8
	17	8.7
	18	17.6
	20	2.5
	21	11.4
	22	20.3
	24	5.2
	25	14.0
	26	22.9
	28	7.8
	29	16.7
	31	1.6
April	1	10.5
	2	19.4
	4	4.3
	5	13.1
	6	22.0
April	8	6.9
	9	15.8
	11	0.6
	12	9.5
	13	18.4
	15	3.3
	16	12.1
	17	21.0
	19	5.9
	20	14.8
	21	23.7
	23	8.5
	24	17.4
	26	2.3
	27	11.2
	28	20.1
	30	4.9
Mai	1	13.8
	2	22.7
	4	7.6
	5	16.5
	7	1.3
	8	10.2
	9	19.1
	11	3.9
	12	12.8
	13	21.7
	15	6.6
	16	15.4
	18	0.3
	19	9.2
	20	18.1
	22	3.0
	23	11.8
	24	20.7
	26	5.6
	27	14.5
	28	23.3
	30	8.2
	31	17.1
Juni	2	2.0
	3	10.8
	4	19.7
	6	4.6
	7	13.5
	8	22.4
	10	7.2
	11	16.1
Juni	13	1.0
	14	9.8
	15	18.7
	17	3.6
	18	12.5
	19	21.3
	21	6.2
	22	15.1
	23	23.9
	25	8.8
	26	17.7
	28	2.5
	29	11.4
	30	20.3
Juli	2	5.2
	3	14.0
	4	22.9
	6	7.8
	7	16.7
	9	1.6
	10	10.5
	11	19.3
	13	4.2
	14	13.1
	15	22.0
	17	6.9
	18	15.7
	20	0.6
	21	9.5
	22	18.4
	24	3.3
	25	12.2
	26	21.1
	28	5.9
	29	14.8
	30	23.7
Aug.	1	8.6
	2	17.5
	4	2.3
	5	11.2
	6	20.1
	8	5.0
	9	13.9
	10	22.8
	12	7.6
	13	16.5
	15	1.4
	16	10.3
Aug.	17	19.2
	19	4.1
	20	12.9
	21	21.8
	23	6.7
	24	15.6
	26	0.5
	27	9.4
	28	18.3
	30	3.2
	31	12.1
Sept.	1	20.9
	3	5.8
	4	14.7
	5	23.6
	7	8.5
	8	17.4
	10	2.3
	11	11.2
	12	20.1
	14	5.0
	15	13.9
	16	22.8
	18	7.6
	19	16.5
	21	1.4
	22	10.3
	23	19.2
	25	4.1
	26	13.0
	27	21.9
	29	6.8
	30	15.7
Okt.	2	0.6
	3	9.4
	4	18.3
	6	3.2
	7	12.1
	8	21.0
	10	5.9
	11	14.8
	12	23.7
	14	8.6
	15	17.5
	17	2.4
	18	11.3
	19	20.2
	21	5.1
Okt.	22	14.0
	23	22.9
	25	7.8
	26	16.7

TETHYS

Datum		h
Febr.	28	13.7
März	2	11.0
	4	8.3
	6	5.7
	8	3.0
	10	0.3
	11	21.6
	13	19.0
	15	16.3
	17	13.6
	19	10.9
	21	8.2
	23	5.5
	25	2.9
	27	0.2
	28	21.5
	30	18.8
April	1	16.1
	3	13.4
	5	10.7
	7	8.0
	9	5.3
	11	2.6
	12	23.9
	14	21.2
	16	18.5
	18	15.8
	20	13.1
	22	10.4
	24	7.7
	26	5.0
	28	2.3
	29	23.6
Mai	1	20.9
	3	18.2
	5	15.5
	7	12.8
	9	10.1
	11	7.4
	13	4.6
	15	1.9

Östliche Elongationen (in Welt-Zeit)

TETHYS

Datum	h
Mai 16	23.2
18	20.5
20	17.8
22	15.1
24	12.4
26	9.7
28	6.9
30	4.2
Juni 1	1.5
2	22.8
4	20.1
6	17.4
8	14.7
10	12.0
12	9.3
14	6.5
16	3.8
18	1.1
19	22.4
21	19.7
23	17.0
25	14.3
27	11.6
29	8.8
Juli 1	6.1
3	3.4
5	0.7
6	22.0
8	19.3
10	16.6
12	13.9
14	11.2
16	8.4
18	5.7
20	3.0
22	0.3
23	21.6
25	18.9
27	16.2
29	13.5
31	10.8
Aug. 2	8.1
4	5.4
6	2.7
8	0.0
9	21.3
11	18.6
13	15.9
Aug. 15	13.3
17	10.6
19	7.9
21	5.2
23	2.5
24	23.8
26	21.1
28	18.4
30	15.7
Sept. 1	13.1
3	10.4
5	7.7
7	5.0
9	2.3
10	23.6
12	20.9
14	18.2
16	15.6
18	12.9
20	10.2
22	7.5
24	4.8
26	2.1
27	23.5
29	20.8
Okt. 1	18.1
3	15.5
5	12.8
7	10.1
9	7.5
11	4.8
13	2.1
14	23.4
16	20.8
18	18.1
20	15.4
22	12.8
24	10.1
26	7.4

DIONE

Datum	h
Febr. 28	4.3
März 2	22.0
5	15.7
8	9.4
11	3.2
13	20.9
März 16	14.6
19	8.3
22	2.0
24	19.7
27	13.3
30	7.0
April 2	0.7
4	18.4
7	12.1
10	5.8
12	23.4
15	17.1
18	10.8
21	4.5
23	22.1
26	15.8
29	9.5
Mai 2	3.1
4	20.8
7	14.5
10	8.1
13	1.8
15	19.4
18	13.1
21	6.7
24	0.4
26	18.0
29	11.7
Juni 1	5.4
3	23.0
6	16.7
9	10.3
12	3.9
14	21.6
17	15.2
20	8.8
23	2.5
25	20.1
28	13.8
Juli 1	7.4
4	1.1
6	18.7
9	12.4
12	6.0
14	23.7
17	17.3
20	11.0
23	4.6
Juli 25	22.3
28	15.9
31	9.6
Aug. 3	3.3
5	20.9
8	14.6
11	8.3
14	2.0
16	19.7
19	13.3
22	7.0
25	0.7
27	18.4
30	12.1
Sept. 2	5.8
4	23.5
7	17.2
10	10.9
13	4.6
15	22.3
18	16.0
21	9.7
24	3.4
26	21.1
29	14.9
Okt. 2	8.6
5	2.3
7	20.1
10	13.8
13	7.5
16	1.3
18	19.0
21	12.7
24	6.5
27	0.2

RHEA

Datum	h
Febr. 28	13.4
März 5	1.9
9	14.4
14	2.8
18	15.3
23	3.8
27	16.2
April 1	4.7
5	17.1
10	5.5
April 14	18.0
19	6.4
23	18.8
28	7.2
Mai 2	19.5
7	7.9
11	20.2
16	8.6
20	20.9
25	9.2
29	21.5
Juni 3	9.9
7	22.2
12	10.5
16	22.7
21	11.0
25	23.3
30	11.6
Juli 5	0.0
9	12.3
14	0.6
18	13.0
23	1.3
27	13.7
Aug. 1	2.1
5	14.4
10	2.8
14	15.2
19	3.5
23	15.9
28	4.3
Sept. 1	16.8
6	5.2
10	17.7
15	6.2
19	18.6
24	7.1
28	19.6
Okt. 3	8.1
7	20.6
12	9.1
16	21.6
21	10.2
25	22.7
30	11.2

Elongationen und Konjunktionen (in Welt-Zeit)

TITAN

		h	
März	1	2.6	Ob. Konj.
	4	22.2	Östl. El.
	8	23.9	Unt. Konj.
	13	3.9	Westl. El.
	17	2.1	Ob. Konj.
	20	21.7	Östl. El.
	24	23.0	Unt. Konj.
	29	3.2	Westl. El.
April	2	1.2	Ob. Konj.
	5	20.7	Östl. El.
	9	21.9	Unt. Konj.
	14	1.9	Westl. El.
	17	23.9	Ob. Konj.
	21	19.2	Östl. El.
	25	20.3	Unt. Konj.
	30	0.2	Westl. El.
Mai	3	22.1	Ob. Konj.
	7	17.3	Östl. El.
	11	18.2	Unt. Konj.
	15	22.0	Westl. El.
	19	19.9	Ob. Konj.
	23	15.0	Östl. El.
	27	15.7	Unt. Konj.
	31	19.5	Westl. El.
Juni	4	17.5	Ob. Konj.
	8	12.4	Östl. El.
	12	13.0	Unt. Konj.
	16	16.9	Westl. El.
	20	14.9	Ob. Konj.
	24	9.7	Östl. El.
	28	10.2	Unt. Konj.
Juli	2	14.2	Westl. El.
	6	12.3	Ob. Konj.
	10	7.1	Östl. El.
	14	7.6	Unt. Konj.
	18	11.6	Westl. El.
	22	9.9	Ob. Konj.
	26	4.7	Östl. El.
	30	5.2	Unt. Konj.
Aug.	3	9.4	Westl. El.
	7	7.9	Ob. Konj.
	11	2.7	Östl. El.
	15	3.3	Unt. Konj.
	19	7.6	Westl. El.
Aug.	23	6.2	Ob. Konj.
	27	1.1	Östl. El.
	31	1.8	Unt. Konj.
Sept.	4	6.3	Westl. El.
	8	5.0	Ob. Konj.
	12	0.0	Östl. El.
	16	0.9	Unt. Konj.
	20	5.5	Westl. El.
	24	4.3	Ob. Konj.
	27	23.4	Östl. El.
Okt.	2	0.4	Unt. Konj.
	6	5.2	Westl. El.
	10	4.0	Ob. Konj.
	13	23.2	Östl. El.
	18	0.4	Unt. Konj.
	22	5.3	Westl. El.

HYPERION

		h	
März	4	15.6	Unt. Konj.
	10	10.9	Westl. El.
	14	19.8	Ob. Konj.
	19	14.3	Östl. El.
	25	21.9	Unt. Konj.
	31	15.8	Westl. El.
April	5	0.4	Ob. Konj.
	9	19.2	Östl. El.
	16	2.5	Unt. Konj.
	21	19.7	Westl. El.
	26	3.9	Ob. Konj.
	30	22.6	Östl. El.
Mai	7	5.7	Unt. Konj.
	12	22.3	Westl. El.
	17	6.5	Ob. Konj.
	22	1.1	Östl. El.
	28	7.7	Unt. Konj.
Juni	3	0.3	Westl. El.
	7	8.6	Ob. Konj.
	12	2.8	Östl. El.
	18	9.0	Unt. Konj.
	24	2.0	Westl. El.
	28	10.5	Ob. Konj.
Juli	3	4.5	Östl. El.
	9	10.6	Unt. Konj.
	15	4.2	Westl. El.
	19	12.9	Ob. Konj.
Juli	24	6.8	Östl. El.
	30	13.2	Unt. Konj.
Aug.	5	7.2	Westl. El.
	9	16.1	Ob. Konj.
	14	10.4	Östl. El.
	20	17.3	Unt. Konj.
	26	11.7	Westl. El.
	30	20.7	Ob. Konj.
Sept.	4	15.4	Östl. El.
	10	23.2	Unt. Konj.
	16	17.6	Westl. El.
	21	2.7	Ob. Konj.
	25	22.3	Östl. El.
Okt.	2	7.2	Unt. Konj.
	8	1.2	Westl. El.
	12	10.1	Ob. Konj.
	17	6.9	Östl. El.
	23	16.9	Unt. Konj.

JAPETUS

		h	
März	4	18.7	Westl. El.
	25	12.7	Ob. Konj.
April	13	15.1	Östl. El.
Mai	2	16.0	Unt. Konj.
	23	0.4	Westl. El.
Juni	12	6.6	Ob. Konj.
Juli	1	2.5	Östl. El.
	19	21.4	Unt. Konj.
Aug.	9	4.7	Westl. El.
	29	18.3	Ob. Konj.
Sept.	17	23.9	Östl. El.
Okt.	7	5.8	Unt. Konj.

Welt-Zeit			
Jan.	1	8h	☉ im Perigäum
	8	21	♄ ☌ ☾
	12	6	☿ ☌ ☾
	14	20	♀ ☌ ☾
	16	18	♅ ☌ ☾
	18	20	♃ ☌ ☾
	22	8	♂ ☌ ☾
	22	15	☿ gr. östl. El. 18° 35′
	26	23	♆ ☌ ☾
	27	10	♂ stationär
	27	19	☿ im Perihel
	28	17	☿ stationär
Febr.	5	10h	♄ ☌ ☾
	7	4	☿ untere ☌ ☉
	7	18	♀ gr. östl. El. 46° 48′
	8	1	♀ ☌ ♅, ♀ 1° 57′ N.
	9	3	☿ ☌ ☾
	13	1	♅ ☌ ☾
	13	10	♀ ☌ ☾
	15	8	♃ ☌ ☾
	18	20	♂ ☌ ☾
	19	2	☿ stationär
	19	3	♆ ☍ ☉
	23	8	♆ ☌ ☾
März	2	13h	♀ im Perihel
	4	22	♄ ☌ ☾
	5	0	☿ gr. westl. El. 27° 14′
	9	1	☿ ☌ ☾
	12	11	♅ ☌ ☾
	12	19	☿ im Aphel
	14	8	♀ ☌ ☾
	14	22	♃ ☌ ☾
	15	1	♀ im gr. Glanze
	18	17	♂ ☌ ☾
	21	3	Frühlingsanfang
	22	15	♆ ☌ ☾
	28	12	♅ ☌ ☉
	29	10	♀ stationär

Welt-Zeit			
April	1	8h	♄ ☌ ☾
	7	21	☿ ☌ ♅, ☿ 1° 18′ S.
	8	23	♅ ☌ ☾
	9	3	☿ ☌ ☾
	9	17	♄ stationär
	10	18	♀ ☌ ☾
	11	16	♃ ☌ ☾
	15	20	♂ ☌ ☾
	17	16	☿ obere ☌ ☉
	18	7	☿ ☌ ♀, ☿ 7° 33′ S.
	18	20	♆ ☌ ☾
	20	9	♀ untere ☌ ☉
	25	18	☿ im Perihel
	28	14	☿ ☌ ♃, ☿ 2° 12′ N.
	28	15	♄ ☌ ☾
Mai	6	11h	♅ ☌ ☾
	7	7	♀ ☌ ☾
	9	—	☉ tot. Finsternis
	9	8	♀ stationär
	9	13	♃ ☌ ☾
	10	3	♆ stationär
	10	18	☿ ☌ ☽
	14	2	♂ im Aphel
	14	3	♂ ☌ ☾
	14	13	♃ ☌ ☉
	15	18	☿ gr. östl. El. 21° 57′
	16	1	♆ ☌ ☾
	25	19	♄ ☌ ☾
	26	9	♀ im gr. Glanze
	28	14	☿ stationär
Juni	2	23h	♅ ☌ ☾
	4	12	♀ ☌ ☾
	6	10	♃ ☌ ☾
	7	19	☿ ☌ ☾
	8	18	☿ im Aphel
	9	11	☿ untere ☌ ☉
	11	13	♂ ☌ ☾
	12	8	♆ ☌ ☾
	19	0	♄ ☍ ☉
	21	9	☿ stationär
	21	22	♄ ☌ ☾
	21	22	Sommersanfang
	22	21	♀ im Aphel
	29	9	♀ gr. westl. El. 45° 45′
	30	8	♅ ☌ ☾

Konstellationen 1929

	Welt-Zeit		
Juli	3	0^{h}	♂ ☌ ♆, ♂ 0° 35′ N.
	3	7	☿ gr. westl. El. 21° 37′
	3	17	♀ ☌ ☾
	4	7	♃ ☌ ☾
	4	22	☉ im Apogäum
	5	10	☿ ☌ ☾
	9	19	♆ ☌ ☾
	10	1	♂ ☌ ☾
	14	10	♀ ☌ ♃, ♀ 2° 16′ S.
	17	13	⛢ stationär
	19	0	♄ ☌ ☾
	22	18	☿ im Perihel
	27	15	⛢ ☌ ☾
	31	4	☿ obere ☌ ☉
Aug.	1	0^{h}	♃ ☌ ☾
	2	3	♀ ☌ ☾
	5	12	☿ ☌ ☾
	6	6	♆ ☌ ☾
	7	17	♂ ☌ ☾
	11	19	☿ ☌ ♆, ☿ 0° 57′ N.
	15	5	♄ ☌ ☾
	23	19	⛢ ☌ ☾
	24	20	♆ ☌ ☉
	28	14	♃ ☌ ☾
	29	3	♄ stationär
	31	16	♀ ☌ ☾
Sept.	2	18^{h}	♆ ☌ ☾
	4	17	☿ im Aphel
	5	7	☿ ☌ ☾
	5	11	♂ ☌ ☾
	10	8	☿ ☌ ♂, ☿ 2° 55′ S.
	11	12	♄ ☌ ☾
	12	17	☿ gr. östl. El. 26° 48′
	20	0	⛢ ☌ ☾
	23	13	Herbstanfang
	23	23	☿ ☌ ♂, ☿ 4° 20′ S.
	24	23	♃ ☌ ☾
	25	17	☿ stationär
	27	12	♀ ☌ ♆, ♀ 0° 18′ N.
	30	4	♆ ☌ ☾
	30	10	♀ ☌ ☾
Okt.	3	2^{h}	⛢ ☍ ☉
	3	13	☿ ☌ ☾
	4	8	♂ ☌ ☾
	5	11	♃ stationär
	8	6	☿ untere ☌ ☉
	8	23	♄ ☌ ☾
	13	4	♀ im Perihel
	16	15	☿ stationär
	17	6	⛢ ☌ ☾
	18	17	☿ im Perihel
	22	4	♃ ☌ ☾
	23	19	☿ gr. westl. El. 18° 23′
	27	12	♆ ☌ ☾
	30	12	♀ ☌ ☾
	31	4	☿ ☌ ☾
Nov.	1	—^{h}	☉ ringf. Finsternis
	2	7	♂ ☌ ☾
	5	11	♄ ☌ ☾
	11	—	♄ im Aphel
	13	14	⛢ ☌ ☾
	18	9	♃ ☌ ☾
	23	18	♆ ☌ ☾
	27	14	☿ obere ☌ ☉
	29	15	☿ ☌ ♂, ☿ 0° 31′ S.
	29	19	♀ ☌ ☾
Dez.	1	7^{h}	♂ ☌ ☾
	1	10	☿ ☌ ☾
	1	17	☿ im Aphel
	3	0	♄ ☌ ☾
	3	8	♂ ☌ ☉
	3	23	♃ ☍ ☉
	6	16	♆ stationär
	10	23	⛢ ☌ ☾
	14	16	☿ ☌ ♄, ☿ 2° 50′ S.
	15	14	♃ ☌ ☾
	17	14	⛢ stationär
	21	1	♆ ☌ ☾
	22	8	Wintersanfang
	25	4	♄ ☌ ☉
	30	3	♀ ☌ ☾
	30	7	♂ ☌ ☾
	30	13	♄ ☌ ☾

Präzession in Rektaszension (p_α) und Deklination (p_δ)

	p_α													p_δ
α \ δ	+60°	+50°	+40°	+30°	+20°	+10°	0°	−10°	−20°	−30°	−40°	−50°	−60°	
0h	3s.07	3s.07	3s.07	3s.07	3s.07	3s.07	3s.07	3s.07	3s.07	3s.07	3s.07	3s.07	3s.07	+20″.0
1	3.67	3.48	3.36	3.27	3.20	3.13	3.07	3.01	2.95	2.87	2.78	2.66	2.47	+19.4
2	4.23	3.87	3.63	3.46	3.32	3.19	3.07	2.95	2.83	2.69	2.51	2.28	1.92	+17.4
3	4.71	4.20	3.87	3.62	3.42	3.24	3.07	2.91	2.73	2.53	2.28	1.95	1.44	+14.2
4	5.08	4.45	4.04	3.74	3.49	3.28	3.07	2.87	2.65	2.41	2.10	1.69	1.07	+10.0
5	5.31	4.61	4.16	3.82	3.54	3.30	3.07	2.84	2.60	2.33	1.99	1.53	0.84	+ 5.2
6	5.39	4.67	4.19	3.84	3.56	3.31	3.07	2.84	2.59	2.30	1.95	1.48	0.76	0.0
7	5.31	4.61	4.16	3.82	3.54	3.30	3.07	2.84	2.60	2.33	1.99	1.53	0.84	− 5.2
8	5.08	4.45	4.04	3.74	3.49	3.28	3.07	2.87	2.65	2.41	2.10	1.69	1.07	−10.0
9	4.71	4.20	3.87	3.62	3.42	3.24	3.07	2.91	2.73	2.53	2.28	1.95	1.44	−14.2
10	4.23	3.87	3.63	3.46	3.32	3.19	3.07	2.95	2.83	2.69	2.51	2.28	1.92	−17.4
11	3.67	3.48	3.36	3.27	3.20	3.13	3.07	3.01	2.95	2.87	2.78	2.66	2.47	−19.4
12	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	−20.0
13	2.47	2.66	2.78	2.87	2.95	3.01	3.07	3.13	3.20	3.27	3.36	3.48	3.67	−19.4
14	1.92	2.28	2.51	2.69	2.83	2.95	3.07	3.19	3.32	3.46	3.63	3.87	4.23	−17.4
15	1.44	1.95	2.28	2.53	2.73	2.91	3.07	3.24	3.42	3.62	3.87	4.20	4.71	−14.2
16	1.07	1.69	2.10	2.41	2.65	2.87	3.07	3.28	3.49	3.74	4.04	4.45	5.08	−10.0
17	0.84	1.53	1.99	2.33	2.60	2.84	3.07	3.30	3.54	3.82	4.16	4.61	5.31	− 5.2
18	0.76	1.48	1.95	2.30	2.59	2.84	3.07	3.31	3.56	3.84	4.19	4.67	5.39	0.0
19	0.84	1.53	1.99	2.33	2.60	2.84	3.07	3.30	3.54	3.82	4.16	4.61	5.31	+ 5.2
20	1.07	1.69	2.10	2.41	2.65	2.87	3.07	3.28	3.49	3.74	4.04	4.45	5.08	+10.0
21	1.44	1.95	2.28	2.53	2.73	2.91	3.07	3.24	3.42	3.62	3.87	4.20	4.71	+14.2
22	1.92	2.28	2.51	2.69	2.83	2.95	3.07	3.19	3.32	3.46	3.63	3.87	4.23	+17.4
23	2.47	2.66	2.78	2.87	2.95	3.01	3.07	3.13	3.20	3.27	3.36	3.48	3.67	+19.4
24	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	+20.0

Präzessionswerte und Schiefe der Ekliptik

Zeit	m	n	ψ	$\log \pi$	Π	ε
1900.0	3s.07233	20″.0468	50″.2564	9.67309	173° 57′.06	23° 27′ 8″.26
1905.0	3.07243	20.0464	50.2575	9.67305	173 59.80	23 27 5.92
1910.0	3.07252	20.0460	50.2586	9.67302	174 2.53	23 27 3.58
1915.0	3.07261	20.0456	50.2597	9.67299	174 5.27	23 27 1.23
1920.0	3.07271	20.0451	50.2608	9.67296	174 8.01	23 26 58.89
1925.0	3.07280	20.0447	50.2620	9.67293	174 10.75	23 26 56.55
1930.0	3.07289	20.0443	50.2631	9.67290	174 13.49	23 26 54.21
1935.0	3.07299	20.0438	50.2642	9.67287	174 16.23	23 26 51.87
1940.0	3.07308	20.0434	50.2653	9.67284	174 18.97	23 26 49.52
1945.0	3.07317	20.0430	50.2664	9.67281	174 21.71	23 26 47.18
1950.0	3.07327	20.0426	50.2675	9.67278	174 24.45	23 26 44.84

Präzession in Länge p_λ											Präz. in Br. p_β		
Länge λ	Breite β										Länge λ	Präzession p_β	
	0°	+1°	+2°	+3°	+4°	+5°	+6°	+7°	+8°	+9°			
0°	50.262″	.254″	.245″	.237″	.229″	50.221″	.213″	.205″	.196″	.188″	0°	+0.048″	80
10	.262	.254	.246	.238	.230	.222	.214	.206	.198	.190	10	+0.128	77
20	.262	.255	.247	.240	.232	.225	.217	.210	.202	.195	20	+0.205	70
30	.262	.255	.249	.242	.235	.229	.222	.215	.208	.202	30	+0.275	63
40	50.262	.256	.251	.245	.239	50.233	.227	.221	.216	.210	40	+0.338	52
50	.262	.257	.253	.248	.243	.239	.234	.229	.225	.220	50	+0.390	40
60	.262	.259	.255	.252	.249	.245	.242	.238	.235	.231	60	+0.430	26
70	.262	.260	.258	.256	.254	.252	.250	.248	.246	.244	70	+0.456	14
80	50.262	.261	.261	.260	.259	50.259	.258	.258	.257	.257	80	+0.470	$\overline{1}$
90	.262	.263	.263	.264	.265	.266	.267	.268	.269	.270	90	+0.469	16
100	.262	.264	.267	.269	.271	.273	.275	.277	.280	.282	100	+0.453	29
110	.262	.266	.269	.273	.277	.280	.284	.287	.291	.294	110	+0.424	42
120	50.262	.267	.271	.276	.281	50.286	.291	.296	.301	.306	120	+0.382	54
130	.262	.268	.274	.280	.286	.292	.298	.304	.310	.316	130	+0.328	63
140	.262	.269	.275	.282	.289	.296	.303	.310	.317	.324	140	+0.265	72
150	.262	.270	.277	.285	.292	.300	.307	.315	.322	.330	150	+0.193	77
160	50.262	.270	.278	.286	.294	50.302	.310	.318	.326	.334	160	+0.116	81
170	.262	.270	.279	.287	.295	.303	.311	.319	.328	.336	170	+0.035	83
180	.262	.270	.279	.287	.295	.303	.311	.319	.328	.336	180	−0.048	80
190	.262	.270	.278	.286	.294	.302	.310	.318	.326	.334	190	−0.128	77
200	50.262	.269	.277	.284	.292	50.299	.307	.314	.322	.329	200	−0.205	70
210	.262	.269	.275	.282	.289	.295	.302	.309	.316	.322	210	−0.275	63
220	.262	.268	.273	.279	.285	.291	.297	.303	.308	.314	220	−0.338	52
230	.262	.267	.271	.276	.281	.285	.290	.295	.299	.304	230	−0.390	40
240	50.262	.265	.269	.272	.275	50.279	.282	.286	.289	.293	240	−0.430	26
250	.262	.264	.266	.268	.270	.272	.274	.276	.278	.280	250	−0.456	14
260	.262	.263	.263	.264	.265	.265	.266	.266	.267	.267	260	−0.470	$\overline{1}$
270	.262	.261	.261	.260	.259	.258	.257	.256	.255	.254	270	−0.469	16
280	50.262	.260	.257	.255	.253	50.251	.249	.247	.244	.242	280	−0.453	29
290	.262	.258	.255	.251	.247	.244	.240	.237	.233	.230	290	−0.424	42
300	.262	.257	.253	.248	.243	.238	.233	.228	.223	.218	300	−0.382	54
310	.262	.256	.250	.244	.238	.232	.226	.220	.214	.208	310	−0.328	63
320	50.262	.255	.249	.242	.235	50.228	.221	.214	.207	.200	320	−0.265	72
330	.262	.254	.247	.239	.232	.224	.217	.209	.202	.194	330	−0.193	77
340	.262	.254	.246	.238	.230	.222	.214	.206	.198	.190	340	−0.116	81
350	.262	.254	.245	.237	.229	.221	.213	.205	.196	.188	350	−0.035	83
360	50.262	.254	.245	.237	.229	50.221	.213	.205	.196	.188	360	+0.048	

	Präzession in Länge p_λ										Präz. in Br. p_β		
Länge λ	Breite β										Länge λ	Präzession p_β	
	0°	−1°	−2°	−3°	−4°	−5°	−6°	−7°	−8°	−9°			
0°	50.262″	.270″	.279″	.287″	.295″	50.303″	.311″	.319″	.328″	.336″	0°	+0.048″	80
10	.262	.270	.278	.286	.294	.302	.310	.318	.326	.334	10	+0.128	77
20	.262	.269	.277	.284	.292	.299	.307	.314	.322	.329	20	+0.205	70
30	.262	.269	.275	.282	.289	.295	.302	.309	.316	.322	30	+0.275	63
40	50.262	.268	.273	.279	.285	50.291	.297	.303	.308	.314	40	+0.338	52
50	.262	.267	.271	.276	.281	.285	.290	.295	.299	.304	50	+0.390	40
60	.262	.265	.269	.272	.275	.279	.282	.286	.289	.293	60	+0.430	26
70	.262	.264	.266	.268	.270	.272	.274	.276	.278	.280	70	+0.456	14
80	50.262	.263	.263	.264	.265	50.265	.266	.266	.267	.267	80	+0.470	$\overline{1}$
90	.262	.261	.261	.260	.259	.258	.257	.256	.255	.254	90	+0.469	16
100	.262	.260	.257	.255	.253	.251	.249	.247	.244	.242	100	+0.453	29
110	.262	.258	.255	.251	.247	.244	.240	.237	.233	.230	110	+0.424	42
120	50.262	.257	.253	.248	.243	50.238	.233	.228	.223	.218	120	+0.382	54
130	.262	.256	.250	.244	.238	.232	.226	.220	.214	.208	130	+0.328	63
140	.262	.255	.249	.242	.235	.228	.221	.214	.207	.200	140	+0.265	72
150	.262	.254	.247	.239	.232	.224	.217	.209	.202	.194	150	+0.193	77
160	50.262	.254	.246	.238	.230	50.222	.214	.206	.198	.190	160	+0.116	81
170	.262	.254	.245	.237	.229	.221	.213	.205	.196	.188	170	+0.035	83
180	.262	.254	.245	.237	.229	.221	.213	.205	.196	.188	180	−0.048	80
190	.262	.254	.246	.238	.230	.222	.214	.206	.198	.190	190	−0.128	77
200	50.262	.255	.247	.240	.232	50.225	.217	.210	.202	.195	200	−0.205	70
210	.262	.255	.249	.242	.235	.229	.222	.215	.208	.202	210	−0.275	63
220	.262	.256	.251	.245	.239	.233	.227	.221	.216	.210	220	−0.338	52
230	.262	.257	.253	.248	.243	.239	.234	.229	.225	.220	230	−0.390	40
240	50.262	.259	.255	.252	.249	50.245	.242	.238	.235	.231	240	−0.430	26
250	.262	.260	.258	.256	.254	.252	.250	.248	.246	.244	250	−0.456	14
260	.262	.261	.261	.260	.259	.259	.258	.258	.257	.257	260	−0.470	$\overline{1}$
270	.262	.263	.263	.264	.265	.266	.267	.268	.269	.270	270	−0.469	16
280	50.262	.264	.267	.269	.271	50.273	.275	.277	.280	.282	280	−0.453	29
290	.262	.266	.269	.273	.277	.280	.284	.287	.291	.294	290	−0.424	42
300	.262	.267	.271	.276	.281	.286	.291	.296	.301	.306	300	−0.382	54
310	.262	.268	.274	.280	.286	.292	.298	.304	.310	.316	310	−0.328	63
320	50.262	.269	.275	.282	.289	50.296	.303	.310	.317	.324	320	−0.265	72
330	.262	.270	.277	.285	.292	.300	.307	.315	.322	.330	330	−0.193	77
340	.262	.270	.278	.286	.294	.302	.310	.318	.326	.334	340	−0.116	81
350	.262	.270	.279	.287	.295	.303	.311	.319	.328	.336	350	−0.035	83
360	50.262	.270	.279	.287	.295	50.303	.311	.319	.328	.336	360	+0.048	

Halber Tagbogen

δ \ φ	+30°	+32°	+34°	+36°	+38°	+40°	+42°	+44°	+46°	+48°	+50°
°	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m
−30	4 45.4	4 38.8	4 31.8	4 24.4	4 16.5	4 8.1	3 58.9	3 48.9	3 37.9	3 25.7	3 11.8
29	4 48.6	4 42.3	4 35.6	4 28.6	4 21.1	4 13.0	4 4.3	3 54.9	3 44.5	3 33.0	3 20.1
28	4 51.7	4 45.7	4 39.3	4 32.6	4 25.5	4 17.8	4 9.6	4 0.7	3 50.9	3 40.1	3 28.0
27	4 54.7	4 49.0	4 42.9	4 36.5	4 29.8	4 22.5	4 14.7	4 6.2	3 57.0	3 46.9	3 35.5
26	4 57.7	4 52.2	4 46.5	4 40.4	4 33.9	4 27.1	4 19.7	4 11.7	4 3.0	3 53.4	3 42.8
25	5 0.6	4 55.4	4 49.9	4 44.2	4 38.0	4 31.5	4 24.5	4 16.9	4 8.7	3 59.7	3 49.7
24	5 3.5	4 58.5	4 53.3	4 47.8	4 42.0	4 35.8	4 29.2	4 22.0	4 14.3	4 5.8	3 56.5
23	5 6.3	5 1.6	4 56.6	4 51.4	4 45.9	4 40.1	4 33.8	4 27.0	4 19.7	4 11.8	4 3.0
22	5 9.0	5 4.6	4 59.9	4 55.0	4 49.7	4 44.2	4 38.3	4 31.9	4 25.0	4 17.5	4 9.3
21	5 11.7	5 7.5	5 3.1	4 58.4	4 53.5	4 48.3	4 42.7	4 36.7	4 30.2	4 23.2	4 15.4
−20	5 14.4	5 10.4	5 6.2	5 1.8	4 57.2	4 52.3	4 47.0	4 41.3	4 35.3	4 28.7	4 21.4
19	5 17.0	5 13.3	5 9.3	5 5.2	5 0.8	4 56.2	4 51.2	4 45.9	4 40.2	4 34.0	4 27.3
18	5 19.6	5 16.1	5 12.4	5 8.5	5 4.4	5 0.0	4 55.4	4 50.4	4 45.1	4 39.3	4 33.0
17	5 22.2	5 18.9	5 15.4	5 11.7	5 7.9	5 3.8	4 59.5	4 54.9	4 49.9	4 44.5	4 38.6
16	5 24.7	5 21.6	5 18.4	5 14.9	5 11.4	5 7.5	5 3.5	4 59.2	4 54.6	4 49.5	4 44.1
15	5 27.2	5 24.3	5 21.3	5 18.1	5 14.8	5 11.2	5 7.5	5 3.5	4 59.2	4 54.5	4 49.5
14	5 29.7	5 27.0	5 24.2	5 21.3	5 18.2	5 14.9	5 11.4	5 7.7	5 3.7	4 59.5	4 54.8
13	5 32.1	5 29.7	5 27.1	5 24.4	5 21.5	5 18.5	5 15.3	5 11.9	5 8.2	5 4.3	5 0.0
12	5 34.6	5 32.3	5 29.9	5 27.4	5 24.8	5 22.1	5 19.1	5 16.0	5 12.6	5 9.0	5 5.1
11	5 37.0	5 34.9	5 32.7	5 30.5	5 28.1	5 25.6	5 22.9	5 20.1	5 17.0	5 13.7	5 10.2
−10	5 39.4	5 37.5	5 35.5	5 33.5	5 31.3	5 29.1	5 26.7	5 24.1	5 21.4	5 18.4	5 15.2
9	5 41.7	5 40.1	5 38.3	5 36.5	5 34.6	5 32.5	5 30.4	5 28.1	5 25.7	5 23.0	5 20.2
8	5 44.1	5 42.6	5 41.1	5 39.5	5 37.8	5 36.0	5 34.1	5 32.1	5 29.9	5 27.6	5 25.1
7	5 46.4	5 45.2	5 43.8	5 42.4	5 41.0	5 39.4	5 37.8	5 36.0	5 34.2	5 32.2	5 30.0
6	5 48.8	5 47.7	5 46.6	5 45.4	5 44.1	5 42.8	5 41.4	5 40.0	5 38.4	5 36.7	5 34.9
5	5 51.1	5 50.2	5 49.3	5 48.3	5 47.3	5 46.2	5 45.1	5 43.9	5 42.6	5 41.2	5 39.7
4	5 53.4	5 52.7	5 52.0	5 51.2	5 50.4	5 49.6	5 48.7	5 47.8	5 46.8	5 45.7	5 44.5
3	5 55.8	5 55.2	5 54.7	5 54.1	5 53.6	5 53.0	5 52.3	5 51.6	5 50.9	5 50.1	5 49.3
2	5 58.1	5 57.7	5 57.4	5 57.1	5 56.7	5 56.3	5 55.9	5 55.5	5 55.1	5 54.6	5 54.1
− 1	6 0.4	6 0.2	6 0.1	6 0.0	5 59.8	5 59.7	5 59.5	5 59.4	5 59.2	5 59.0	5 58.9
0	6 2.7	6 2.7	6 2.8	6 2.9	6 2.9	6 3.0	6 3.1	6 3.2	6 3.4	6 3.5	6 3.6
+ 1	6 5.0	6 5.2	6 5.5	6 5.8	6 6.1	6 6.4	6 6.7	6 7.1	6 7.5	6 7.9	6 8.4
2	6 7.3	6 7.7	6 8.2	6 8.7	6 9.2	6 9.8	6 10.3	6 11.0	6 11.6	6 12.4	6 13.2
3	6 9.6	6 10.3	6 10.9	6 11.6	6 12.3	6 13.1	6 14.0	6 14.8	6 15.8	6 16.8	6 18.0
4	6 11.9	6 12.8	6 13.6	6 14.5	6 15.5	6 16.5	6 17.6	6 18.7	6 20.0	6 21.3	6 22.8
5	6 14.3	6 15.3	6 16.4	6 17.5	6 18.6	6 19.9	6 21.2	6 22.6	6 24.2	6 25.8	6 27.6
6	6 16.6	6 17.8	6 19.1	6 20.4	6 21.8	6 23.3	6 24.9	6 26.6	6 28.4	6 30.4	6 32.5
7	6 19.0	6 20.4	6 21.8	6 23.4	6 25.0	6 26.7	6 28.6	6 30.5	6 32.6	6 34.9	6 37.4
8	6 21.3	6 22.9	6 24.6	6 26.4	6 28.2	6 30.2	6 32.3	6 34.5	6 36.9	6 39.5	6 42.3
9	6 23.7	6 25.5	6 27.4	6 29.4	6 31.4	6 33.7	6 36.0	6 38.5	6 41.2	6 44.1	6 47.3
10	6 26.1	6 28.1	6 30.2	6 32.4	6 34.7	6 37.2	6 39.8	6 42.5	6 45.6	6 48.8	6 52.3
+11	6 28.5	6 30.7	6 33.0	6 35.4	6 38.0	6 40.7	6 43.6	6 46.6	6 49.9	6 53.5	6 57.4
12	6 31.0	6 33.4	6 35.9	6 38.5	6 41.3	6 44.3	6 47.4	6 50.8	6 54.4	6 58.3	7 2.5
13	6 33.4	6 36.0	6 38.8	6 41.6	6 44.7	6 47.9	6 51.3	6 54.9	6 58.9	7 3.1	7 7.8
14	6 35.9	6 38.7	6 41.7	6 44.8	6 48.0	6 51.5	6 55.2	6 59.2	7 3.4	7 8.0	7 13.1
15	6 38.4	6 41.4	6 44.6	6 47.9	6 51.5	6 55.2	6 59.2	7 3.5	7 8.1	7 13.0	7 18.5
16	6 41.0	6 44.2	6 47.6	6 51.2	6 54.9	6 58.9	7 3.2	7 7.8	7 12.7	7 18.1	7 23.9
17	6 43.5	6 47.0	6 50.6	6 54.4	6 58.5	7 2.7	7 7.3	7 12.2	7 17.5	7 23.3	7 29.5
18	6 46.1	6 49.8	6 53.7	6 57.7	7 2.0	7 6.6	7 11.5	7 16.7	7 22.4	7 28.5	7 35.3
19	6 48.8	6 52.7	6 56.8	7 1.1	7 5.7	7 10.5	7 15.7	7 21.3	7 27.4	7 33.9	7 41.1
20	6 51.5	6 55.6	6 59.9	7 4.5	7 9.4	7 14.5	7 20.1	7 26.0	7 32.4	7 39.4	7 47.1
+21	6 54.2	6 58.6	7 3.1	7 8.0	7 13.1	7 18.6	7 24.5	7 30.8	7 37.6	7 45.1	7 53.3
22	6 56.9	7 1.6	7 6.4	7 11.5	7 17.0	7 22.8	7 29.0	7 35.7	7 42.9	7 50.9	7 59.6
23	6 59.8	7 4.6	7 9.7	7 15.1	7 20.9	7 27.0	7 33.6	7 40.7	7 48.4	7 56.8	8 6.1
24	7 2.6	7 7.7	7 13.1	7 18.8	7 24.9	7 31.3	7 38.3	7 45.8	7 54.0	8 2.9	8 12.9
25	7 5.6	7 10.9	7 16.6	7 22.6	7 29.0	7 35.8	7 43.1	7 51.1	7 59.8	8 9.3	8 19.9
26	7 8.5	7 14.2	7 20.1	7 26.4	7 33.2	7 40.4	7 48.1	7 56.5	8 5.7	8 15.8	8 27.1
27	7 11.6	7 17.5	7 23.8	7 30.4	7 37.5	7 45.0	7 53.2	8 2.1	8 11.8	8 22.6	8 34.7
28	7 14.7	7 20.9	7 27.5	7 34.4	7 41.9	7 49.9	7 58.5	8 7.9	8 18.2	8 29.7	8 42.6
29	7 17.9	7 24.4	7 31.3	7 38.6	7 46.4	7 54.8	8 3.9	8 13.9	8 24.8	8 37.1	8 51.0
+30	7 21.2	7 28.0	7 35.2	7 42.9	7 51.1	7 59.9	8 9.5	8 20.1	8 31.7	8 44.8	8 59.7

δ \ φ	+50°	+51°	+52°	+53°	+54°	+55°	+56°	+57°	+58°	+59°	+60°
°	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m
−30	3 11.8	3 4.1	2 55.8	2 46.8	2 36.9	2 25.9	2 13.5	1 59.3	1 42.4	1 21.1	0 49.7
29	3 20.1	3 12.9	3 5.3	2 57.0	2 48.0	2 38.1	2 27.1	2 14.7	2 0.4	1 43.4	1 21.9
28	3 28.0	3 21.3	3 14.2	3 6.6	2 58.3	2 49.3	2 39.4	2 28.4	2 15.9	2 1.6	1 44.5
27	3 35.5	3 29.3	3 22.7	3 15.7	3 8.0	2 59.8	2 50.8	2 40.8	2 29.8	2 17.3	2 2.9
26	3 42.8	3 37.0	3 30.8	3 24.2	3 17.2	3 9.6	3 1.4	2 52.4	2 42.4	2 31.3	2 18.8
25	3 49.7	3 44.3	3 38.6	3 32.4	3 25.9	3 18.9	3 11.3	3 3.1	2 54.1	2 44.1	2 33.0
24	3 56.5	3 51.4	3 46.0	3 40.3	3 34.3	3 27.8	3 20.8	3 13.2	3 5.0	2 56.0	2 46.0
23	4 3.0	3 58.2	3 53.2	3 47.9	3 42.3	3 36.2	3 29.8	3 22.8	3 15.3	3 7.1	2 58.0
22	4 9.3	4 4.9	4 0.2	3 55.2	3 50.0	3 44.3	3 38.4	3 31.9	3 25.0	3 17.5	3 9.3
21	4 15.4	4 11.3	4 6.9	4 2.3	3 57.4	3 52.2	3 46.6	3 40.7	3 34.3	3 27.4	3 19.9
−20	4 21.4	4 17.5	4 13.5	4 9.1	4 4.6	3 59.8	3 54.6	3 49.1	3 43.2	3 36.9	3 30.0
19	4 27.3	4 23.7	4 19.9	4 15.8	4 11.6	4 7.1	4 2.3	3 57.2	3 51.8	3 45.9	3 39.6
18	4 33.0	4 29.6	4 26.1	4 22.3	4 18.4	4 14.2	4 9.8	4 5.1	4 0.1	3 54.7	3 48.9
17	4 38.6	4 35.4	4 32.1	4 28.7	4 25.0	4 21.1	4 17.0	4 12.7	4 8.1	4 3.1	3 57.8
16	4 44.1	4 41.2	4 38.1	4 34.9	4 31.5	4 27.9	4 24.1	4 20.1	4 15.9	4 11.3	4 6.4
15	4 49.5	4 46.8	4 43.9	4 41.0	4 37.8	4 34.5	4 31.0	4 27.4	4 23.4	4 19.3	4 14.8
14	4 54.8	4 52.3	4 49.7	4 46.9	4 44.1	4 41.0	4 37.8	4 34.4	4 30.8	4 27.0	4 22.9
13	5 0.0	4 57.7	4 55.3	4 52.8	4 50.2	4 47.4	4 44.5	4 41.4	4 38.1	4 34.6	4 30.9
12	5 5.1	5 3.0	5 0.9	4 58.6	4 56.2	4 53.7	4 51.0	4 48.2	4 45.2	4 42.0	4 38.7
11	5 10.2	5 8.3	5 6.4	5 4.3	5 2.1	4 59.8	4 57.4	4 54.9	4 52.2	4 49.3	4 46.3
−10	5 15.2	5 13.5	5 11.8	5 9.9	5 7.9	5 5.9	5 3.7	5 1.5	4 59.1	4 56.5	4 53.8
9	5 20.2	5 18.7	5 17.1	5 15.5	5 13.7	5 11.9	5 10.0	5 8.0	5 5.8	5 3.6	5 1.2
8	5 25.1	5 23.8	5 22.4	5 21.0	5 19.5	5 17.9	5 16.2	5 14.4	5 12.5	5 10.6	5 8.5
7	5 30.0	5 28.9	5 27.7	5 26.4	5 25.1	5 23.8	5 22.3	5 20.8	5 19.2	5 17.5	5 15.7
6	5 34.9	5 33.9	5 32.9	5 31.8	5 30.7	5 29.6	5 28.4	5 27.1	5 25.7	5 24.3	5 22.8
5	5 39.7	5 38.9	5 38.1	5 37.2	5 36.3	5 35.4	5 34.4	5 33.4	5 32.2	5 31.1	5 29.9
4	5 44.5	5 43.9	5 43.3	5 42.6	5 41.9	5 41.2	5 40.4	5 39.6	5 38.7	5 37.8	5 36.9
3	5 49.3	5 48.9	5 48.4	5 47.9	5 47.4	5 46.9	5 46.3	5 45.8	5 45.2	5 44.5	5 43.8
2	5 54.1	5 53.8	5 53.5	5 53.3	5 52.9	5 52.6	5 52.3	5 52.0	5 51.6	5 51.2	5 50.8
− 1	5 58.9	5 58.8	5 58.7	5 58.6	5 58.4	5 58.3	5 58.2	5 58.1	5 58.0	5 57.9	5 57.7
0	6 3.6	6 3.7	6 3.8	6 3.9	6 4.0	6 4.1	6 4.2	6 4.3	6 4.4	6 4.5	6 4.7
+ 1	6 8.4	6 8.6	6 8.9	6 9.2	6 9.5	6 9.8	6 10.1	6 10.4	6 10.8	6 11.2	6 11.6
2	6 13.2	6 13.6	6 14.0	6 14.5	6 15.0	6 15.5	6 16.0	6 16.6	6 17.2	6 17.8	6 18.5
3	6 18.0	6 18.6	6 19.2	6 19.8	6 20.5	6 21.2	6 22.0	6 22.8	6 23.6	6 24.6	6 25.5
4	6 22.8	6 23.5	6 24.4	6 25.2	6 26.1	6 27.0	6 28.0	6 29.0	6 30.1	6 31.3	6 32.5
5	6 27.6	6 28.6	6 29.6	6 30.6	6 31.7	6 32.8	6 34.0	6 35.3	6 36.6	6 38.1	6 39.6
6	6 32.5	6 33.6	6 34.8	6 36.0	6 37.3	6 38.7	6 40.1	6 41.6	6 43.2	6 44.9	6 46.7
7	6 37.4	6 38.7	6 40.0	6 41.5	6 43.0	6 44.6	6 46.2	6 48.0	6 49.8	6 51.8	6 53.9
8	6 42.3	6 43.8	6 45.3	6 47.0	6 48.7	6 50.5	6 52.4	6 54.4	6 56.5	6 58.8	7 1.2
9	6 47.3	6 48.9	6 50.7	6 52.6	6 54.5	6 56.5	6 58.7	7 0.9	7 3.3	7 5.9	7 8.6
10	6 52.3	6 54.2	6 56.1	6 58.2	7 0.3	7 2.6	7 5.0	7 7.5	7 10.2	7 13.1	7 16.2
+11	6 57.4	6 59.4	7 1.6	7 3.9	7 6.3	7 8.8	7 11.4	7 14.2	7 17.2	7 20.4	7 23.8
12	7 2.5	7 4.8	7 7.2	7 9.7	7 12.3	7 15.1	7 18.0	7 21.1	7 24.3	7 27.8	7 31.5
13	7 7.8	7 10.2	7 12.8	7 15.5	7 18.4	7 21.4	7 24.6	7 28.0	7 31.6	7 35.4	7 39.5
14	7 13.1	7 15.7	7 18.6	7 21.5	7 24.6	7 27.9	7 31.4	7 35.1	7 39.0	7 43.2	7 47.7
15	7 18.5	7 21.4	7 24.4	7 27.6	7 31.0	7 34.6	7 38.3	7 42.4	7 46.6	7 51.2	7 56.1
16	7 23.9	7 27.1	7 30.4	7 33.8	7 37.5	7 41.4	7 45.4	7 49.8	7 54.4	7 59.4	8 4.7
17	7 29.5	7 32.9	7 36.5	7 40.2	7 44.1	7 48.3	7 52.7	7 57.4	8 2.5	8 7.9	8 13.7
18	7 35.3	7 38.9	7 42.7	7 46.7	7 50.9	7 55.4	8 0.2	8 5.3	8 10.8	8 16.6	8 23.0
19	7 41.1	7 45.0	7 49.1	7 53.4	7 57.9	8 2.8	8 7.9	8 13.4	8 19.4	8 25.7	8 32.6
20	7 47.1	7 51.3	7 55.6	8 0.3	8 5.2	8 10.4	8 15.9	8 21.9	8 28.3	8 35.2	8 42.8
+21	7 53.3	7 57.7	8 2.4	8 7.3	8 12.6	8 18.2	8 24.2	8 30.7	8 37.6	8 45.2	8 53.5
22	7 59.6	8 4.3	8 9.4	8 14.7	8 20.3	8 26.4	8 32.8	8 39.8	8 47.4	8 55.7	9 4.8
23	8 6.1	8 11.2	8 16.6	8 22.3	8 28.3	8 34.9	8 41.9	8 49.5	8 57.7	9 6.8	9 16.9
24	8 12.9	8 18.3	8 24.0	8 30.2	8 36.7	8 43.8	8 51.4	8 59.6	9 8.7	9 18.8	9 30.0
25	8 19.9	8 25.7	8 31.8	8 38.4	8 45.5	8 53.1	9 1.4	9 10.5	9 20.5	9 31.7	9 44.4
26	8 27.1	8 33.4	8 40.0	8 47.0	8 54.7	9 3.0	9 12.1	9 22.1	9 33.2	9 45.9	10 0.6
27	8 34.7	8 41.4	8 48.5	8 56.1	9 4.4	9 13.5	9 23.5	9 34.6	9 47.3	10 1.9	10 19.5
28	8 42.6	8 49.8	8 57.5	9 5.8	9 14.8	9 24.8	9 35.9	9 48.5	10 3.1	10 20.5	10 42.9
29	8 51.0	8 58.7	9 7.0	9 16.1	9 26.0	9 37.1	9 49.6	10 4.1	10 21.5	10 43.7	11 18.1
+30	8 59.7	9 8.1	9 17.2	9 27.1	9 38.2	9 50.7	10 5.1	10 22.3	10 44.4	11 18.5	—

Reduktionstafel

für den Auf- und Untergang der Sonne

Das Vorzeichen gilt für den Anfgang, das entgegengesetzte Vorzeichen für den Untergang

12h Welt-Zeit	Geographische Breite										
	+30°	+32°	+34°	+36°	+38°	+40°	+42°	+44°	+46°	+48°	+50°
1929	m	m	m	m	m	m	m	m	m	m	m
Jan. 1	−62.7	−58.0	−53.1	−48.0	−42.6	−36.7	−30.5	−23.8	−16.5	−8.7	0.0
11	−58.5	−54.0	−49.5	−44.6	−39.6	−34.1	−28.4	−22.1	−15.4	−8.0	0.0
21	−52.2	−48.2	−44.1	−39.7	−35.2	−30.3	−25.1	−19.7	−13.7	−7.1	0.0
31	−44.4	−41.0	−37.4	−33.7	−29.8	−25.7	−21.2	−16.5	−11.6	−6.0	0.0
Febr. 10	−35.5	−32.9	−30.0	−27.0	−23.9	−20.5	−16.9	−13.1	− 9.2	−4.8	0.0
20	−26.2	−24.3	−22.1	−19.9	−17.6	−15.1	−12.4	− 9.6	− 6.7	−3.5	0.0
März 2	−16.6	−15.4	−14.0	−12.6	−11.1	− 9.5	− 7.8	− 6.0	− 4.2	−2.2	0.0
12	− 6.9	− 6.5	− 5.9	− 5.3	− 4.6	− 3.9	− 3.2	− 2.5	− 1.8	−0.9	0.0
22	+ 2.8	+ 2.5	+ 2.3	+ 2.2	+ 1.9	+ 1.7	+ 1.4	+ 1.1	+ 0.7	+0.3	0.0
April 1	+12.4	+11.4	+10.4	+ 9.5	+ 8.4	+ 7.2	+ 6.0	+ 4.7	+ 3.2	+1.6	0.0
11	+22.1	+20.3	+18.6	+16.8	+14.8	+12.7	+10.5	+ 8.3	+ 5.6	+2.9	0.0
21	+31.6	+29.0	+26.6	+24.0	+21.1	+18.2	+15.1	+11.8	+ 8.1	+4.2	0.0
Mai 1	+40.6	+37.5	+34.3	+31.0	+27.4	+23.6	+19.7	+15.3	+10.6	+5.5	0.0
11	+49.2	+45.5	+41.6	+37.6	+33.4	+28.7	+23.9	+18.6	+12.9	+6.7	0.0
21	+56.8	+52.7	+48.2	+43.5	+38.7	+33.3	+27.7	+21.6	+15.0	+7.8	0.0
31	+63.0	+58.5	+53.6	+48.4	+43.0	+37.1	+30.8	+24.1	+16.8	+8.8	0.0
Juni 10	+67.1	+62.2	+57.1	+51.6	+45.8	+39.6	+33.0	+25.9	+18.0	+9.5	0.0
20	+68.8	+63.8	+58.6	+52.9	+47.0	+40.7	+33.9	+26.6	+18.5	+9.8	0.0
30	+67.9	+62.9	+57.8	+52.2	+46.4	+40.1	+33.4	+26.2	+18.2	+9.6	0.0
Juli 10	+64.4	+59.6	+54.7	+49.4	+43.9	+38.0	+31.6	+24.8	+17.2	+9.1	0.0
20	+58.8	+54.4	+49.9	+45.0	+40.0	+34.5	+28.6	+22.5	+15.6	+8.2	0.0
30	+51.6	+47.7	+43.8	+39.4	+35.0	+30.1	+25.0	+19.5	+13.6	+7.1	0.0
Aug. 9	+43.4	+40.1	+36.7	+33.0	+29.3	+25.2	+20.9	+16.3	+11.4	+5.9	0.0
19	+34.4	+31.9	+29.1	+26.2	+23.2	+20.0	+16.6	+12.8	+ 9.0	+4.7	0.0
29	+25.1	+23.3	+21.3	+19.2	+16.9	+14.6	+12.1	+ 9.3	+ 6.6	+3.4	0.0
Sept. 8	+15.7	+14.5	+13.3	+12.0	+10.6	+ 9.1	+ 7.5	+ 5.8	+ 4.1	+2.1	0.0
18	+ 6.2	+ 5.7	+ 5.2	+ 4.7	+ 4.2	+ 3.6	+ 2.9	+ 2.3	+ 1.7	+0.9	0.0
28	− 3.5	− 3.1	− 2.8	− 2.5	− 2.2	− 1.9	− 1.6	− 1.2	− 0.8	−0.4	0.0
Okt. 8	−13.1	−11.9	−10.8	− 9.8	− 8.6	− 7.4	− 6.1	− 4.8	− 3.2	−1.6	0.0
18	−22.6	−20.7	−18.9	−17.0	−15.0	−12.9	−10.6	− 8.3	− 5.6	−2.9	0.0
28	−31.8	−29.3	−26.8	−24.1	−21.3	−18.3	−15.1	−11.8	− 8.1	−4.2	0.0
Nov. 7	−40.7	−37.6	−34.4	−31.0	−27.4	−23.5	−19.5	−15.2	−10.4	−5.5	0.0
17	−49.0	−45.3	−41.4	−37.4	−33.0	−28.4	−23.6	−18.3	−12.7	−6.7	0.0
27	−56.0	−51.8	−47.4	−42.8	−37.9	−32.6	−27.1	−21.1	−14.7	−7.7	0.0
Dez. 7	−61.2	−56.6	−51.8	−46.8	−41.4	−35.7	−29.7	−23.2	−16.1	−8.5	0.0
17	−63.9	−59.1	−54.1	−48.9	−43.3	−37.4	−31.1	−24.3	−16.9	−8.9	0.0
27	−63.9	−59.1	−54.1	−48.9	−43.3	−37.4	−31.1	−24.3	−16.9	−8.9	0.0
37	−61.0	−56.4	−51.6	−46.6	−41.4	−35.7	−29.7	−23.2	−16.1	−8.4	0.0

Reduktionstafel

für den Auf- und Untergang der Sonne

Das Vorzeichen gilt für den Aufgang, das entgegengesetzte Vorzeichen für den Untergang

12h Welt-Zeit	Geographische Breite										
	+50°	+51°	+52°	+53°	+54°	+55°	+56°	+57°	+58°	+59°	+60°
1929	m	m	m	m	m	m	m	m	m	m	m
Jan. 1	0.0	+4.7	+ 9.6	+14.8	+20.5	+26.4	+32.8	+39.6	+47.0	+55.0	+63.8
11	0.0	+4.4	+ 8.9	+13.8	+18.8	+24.4	+30.1	+36.3	+43.0	+50.3	+58.2
21	0.0	+3.8	+ 7.9	+12.1	+16.6	+21.2	+26.3	+31.7	+37.4	+43.6	+50.3
31	0.0	+3.2	+ 6.6	+10.1	+13.8	+17.7	+21.9	+26.3	+31.0	+36.1	+41.5
Febr. 10	0.0	+2.5	+ 5.2	+ 8.0	+10.9	+14.0	+17.2	+20.6	+24.3	+28.2	+32.4
20	0.0	+1.8	+ 3.8	+ 5.8	+ 7.9	+10.1	+12.5	+14.9	+17.6	+20.4	+23.3
März 2	0.0	+1.2	+ 2.4	+ 3.7	+ 5.0	+ 6.3	+ 7.8	+ 9.3	+11.0	+12.7	+14.4
12	0.0	+0.5	+ 1.0	+ 1.5	+ 2.1	+ 2.6	+ 3.2	+ 3.8	+ 4.4	+ 5.2	+ 5.9
22	0.0	−0.2	− 0.4	− 0.6	− 0.8	− 1.2	− 1.5	− 1.7	− 2.0	− 2.3	− 2.7
April 1	0.0	−0.9	− 1.8	− 2.7	− 3.8	− 4.9	− 6.1	− 7.3	− 8.5	− 9.9	−11.2
11	0.0	−1.5	− 3.2	− 4.9	− 6.8	− 8.7	−10.7	−12.9	−15.1	−17.5	−20.0
21	0.0	−2.2	− 4.6	− 7.1	− 9.8	−12.6	−15.5	−18.6	−21.9	−25.3	−29.1
Mai 1	0.0	−3.0	− 6.1	− 9.3	−12.8	−16.5	−20.3	−24.4	−28.7	−33.3	−38.4
11	0.0	−3.6	− 7.4	−11.4	−15.7	−20.3	−25.0	−30.2	−35.7	−41.5	−47.9
21	0.0	−4.2	− 8.7	−13.4	−18.4	−23.9	−29.6	−35.8	−42.4	−49.5	−57.3
31	0.0	−4.7	− 9.8	−15.2	−20.8	−27.0	−33.6	−40.7	−48.3	−56.6	−65.8
Juni 10	0.0	−5.1	−10.6	−16.4	−22.6	−29.2	−36.3	−44.1	−52.6	−61.9	−72.3
20	0.0	−5.3	−10.9	−16.9	−23.3	−30.2	−37.5	−45.6	−54.4	−64.0	−75.1
30	0.0	−5.2	−10.7	−16.6	−22.9	−29.6	−36.9	−44.8	−53.4	−62.8	−73.5
Juli 10	0.0	−4.9	−10.1	−15.6	−21.5	−27.8	−34.4	−41.7	−49.6	−58.4	−67.9
20	0.0	−4.4	− 9.1	−14.0	−19.3	−24.8	−30.8	−37.2	−44.2	−51.7	−60.0
30	0.0	−3.8	− 7.9	−12.1	−16.6	−21.3	−26.4	−31.9	−37.7	−44.0	−50.7
Aug. 9	0.0	−3.2	− 6.5	−10.0	−13.8	−17.6	−21.8	−26.2	−30.9	−35.9	−41.2
19	0.0	−2.5	− 5.1	− 7.8	−10.8	−13.7	−17.0	−20.4	−24.1	−27.9	−32.1
29	0.0	−1.8	− 3.7	− 5.7	− 7.8	− 9.9	−12.2	−14.7	−17.3	−20.1	−23.0
Sept. 8	0.0	−1.2	− 2.3	− 3.6	− 4.9	− 6.1	− 7.6	− 9.1	−10.7	−12.5	−14.3
18	0.0	−0.5	− 0.9	− 1.5	− 2.0	− 2.4	− 3.0	− 3.6	− 4.3	− 5.0	− 5.7
28	0.0	+0.2	+ 0.5	+ 0.6	+ 0.9	+ 1.3	+ 1.5	+ 1.8	+ 2.1	+ 2.4	+ 2.7
Okt. 8	0.0	+0.9	+ 1.8	+ 2.8	+ 3.8	+ 5.0	+ 6.1	+ 7.2	+ 8.5	+ 9.8	+11.1
18	0.0	+1.6	+ 3.2	+ 4.9	+ 6.7	+ 8.7	+10.6	+12.7	+15.0	+17.3	+19.8
28	0.0	+2.2	+ 4.6	+ 7.0	+ 9.6	+12.5	+15.3	+18.3	+21.6	+24.9	+28.6
Nov. 7	0.0	+2.9	+ 6.0	+ 9.1	+12.6	+16.2	+20.0	+23.9	+28.2	+32.7	+37.7
17	0.0	+3.6	+ 7.3	+11.2	+15.4	+19.8	+24.5	+29.5	+34.8	+40.4	+46.6
27	0.0	+4.1	+ 8.4	+13.1	+17.9	+23.0	+28.6	+34.5	+40.8	+47.6	+55.0
Dez. 7	0.0	+4.6	+ 9.3	+14.5	+19.8	+25.6	+31.8	+38.4	+45.6	+53.3	+61.7
17	0.0	+4.8	+ 9.8	+15.2	+20.9	+27.0	+33.5	+40.5	+48.2	+56.4	+65.6
27	0.0	+4.8	+ 9.8	+15.2	+20.9	+27.0	+33.5	+40.5	+48.2	+56.4	+65.6
37	0.0	+4.6	+ 9.3	+14.4	+19.8	+25.6	+31.8	+38.2	+45.3	+53.1	+61.5

Reduktionstafel

für Auf- und Untergang des Mondes

Das Vorzeichen gilt für den Aufgang, das entgegengesetzte Vorzeichen für den Untergang

t*)	Geographische Breite										
	+30°	+32°	+34°	+36°	+38°	+40°	+42°	+44°	+46°	+48°	+50°
h m	m	m	m	m	m	m	m	m	m	m	m
3 20	−94.6	−87.9	−80.9	−73.4	−65.5	−56.9	−47.6	−37.5	−26.4	−14.0	0.0
3 30	−88.5	−82.2	−75.6	−68.5	−61.0	−52.9	−44.2	−34.8	−24.4	−12.9	0.0
3 40	−82.5	−76.5	−70.3	−63.7	−56.6	−49.1	−41.0	−32.2	−22.5	−11.9	0.0
3 50	−76.6	−71.0	−65.2	−59.0	−52.4	−45.3	−37.8	−29.6	−20.7	−10.9	0.0
4 0	−70.8	−65.6	−60.1	−54.4	−48.2	−41.7	−34.7	−27.2	−18.9	− 9.9	0.0
4 10	−65.1	−60.3	−55.2	−49.9	−44.2	−38.2	−31.7	−24.8	−17.3	− 9.0	0.0
4 20	−59.5	−55.0	−50.3	−45.5	−40.3	−34.8	−28.9	−22.5	−15.7	− 8.2	0.0
4 30	−54.0	−49.9	−45.6	−41.2	−36.5	−31.4	−26.1	−20.4	−14.1	− 7.4	0.0
4 40	−48.4	−44.8	−40.9	−36.9	−32.7	−28.2	−23.3	−18.2	−12.6	− 6.6	0.0
4 50	−43.0	−39.8	−36.4	−32.7	−29.0	−24.9	−20.7	−16.1	−11.2	− 5.8	0.0
5 0	−37.7	−34.8	−31.8	−28.6	−25.3	−21.8	−18.1	−14.1	− 9.8	− 5.0	0.0
5 10	−32.4	−29.9	−27.3	−24.6	−21.7	−18.7	−15.5	−12.1	− 8.4	− 4.3	0.0
5 20	−27.1	−25.0	−22.8	−20.6	−18.2	−15.6	−12.9	−10.1	− 7.0	− 3.6	0.0
5 30	−21.9	−20.2	−18.4	−16.6	−14.7	−12.6	−10.4	− 8.1	− 5.6	− 2.9	0.0
5 40	−16.7	−15.4	−14.0	−12.6	−11.2	− 9.6	− 7.9	− 6.2	− 4.3	− 2.2	0.0
5 50	−11.5	−10.6	− 9.7	− 8.7	− 7.7	− 6.6	− 5.5	− 4.2	− 2.9	− 1.5	0.0
6 0	− 6.4	− 5.8	− 5.4	− 4.8	− 4.2	− 3.6	− 3.0	− 2.3	− 1.6	− 0.9	0.0
6 10	− 1.2	− 1.1	− 1.0	− 0.9	− 0.8	− 0.7	− 0.6	− 0.4	− 0.3	− 0.2	0.0
6 20	+ 4.0	+ 3.7	+ 3.4	+ 3.0	+ 2.6	+ 2.3	+ 1.9	+ 1.5	+ 1.0	+ 0.5	0.0
6 30	+ 9.1	+ 8.4	+ 7.7	+ 6.9	+ 6.1	+ 5.3	+ 4.4	+ 3.4	+ 2.4	+ 1.2	0.0
6 40	+14.3	+13.2	+12.0	+10.8	+ 9.6	+ 8.2	+ 6.8	+ 5.3	+ 3.7	+ 1.9	0.0
6 50	+19.5	+18.0	+16.4	+14.8	+13.1	+11.2	+ 9.3	+ 7.2	+ 5.0	+ 2.6	0.0
7 0	+24.7	+22.8	+20.9	+18.8	+16.6	+14.2	+11.8	+ 9.1	+ 6.3	+ 3.3	0.0
7 10	+30.0	+27.7	+25.3	+22.8	+20.1	+17.3	+14.3	+11.1	+ 7.7	+ 4.0	0.0
7 20	+35.3	+32.6	+29.7	+26.8	+23.7	+20.3	+16.8	+13.1	+ 9.1	+ 4.7	0.0
7 30	+40.6	+37.5	+34.3	+30.9	+27.3	+23.4	+19.4	+15.1	+10.5	+ 5.5	0.0
7 40	+45.9	+42.5	+38.9	+35.0	+31.0	+26.6	+22.1	+17.2	+12.0	+ 6.2	0.0
7 50	+51.4	+47.6	+43.5	+39.2	+34.7	+29.9	+24.8	+19.3	+13.5	+ 7.0	0.0
8 0	+56.9	+52.7	+48.2	+43.5	+38.5	+33.2	+27.6	+21.5	+15.0	+ 7.8	0.0
8 10	+62.5	+57.9	+53.0	+47.9	+42.4	+36.6	+30.4	+23.8	+16.6	+ 8.6	0.0
8 20	+68.2	+63.2	+57.9	+52.3	+46.4	+40.1	+33.3	+26.1	+18.2	+ 9.5	0.0
8 30	+74.0	+68.5	+62.9	+56.9	+50.5	+43.7	+36.4	+28.5	+19.8	+10.5	0.0
8 40	+79.8	+74.0	+67.9	+61.5	+54.7	+47.3	+39.5	+30.9	+21.6	+11.4	0.0
8 50	+85.8	+79.6	+73.1	+66.3	+59.0	+51.1	+42.7	+33.5	+23.5	+12.5	0.0
9 0	+91.9	+85.3	+78.4	+71.2	+63.4	+55.0	+46.0	+36.3	+25.5	+13.5	0.0

*) *t* ist beim Aufgange der Zeitunterschied zwischen Aufgang und Kulmination, beim Untergange der Zeitunterschied zwischen Kulmination und Untergang

Reduktionstafel

für Auf- und Untergang des Mondes

Das Vorzeichen gilt für den Aufgang, das entgegengesetzte Vorzeichen für den Untergang

t*)	Geographische Breite										
	+50°	+51°	+52°	+53°	+54°	+55°	+56°	+57°	+58°	+59°	+60°
h m	m	m	m	m	m	m	m	m	m	m	m
3 20	0.0	+7.7	+16.1	+25.2	+35.1	+46.1	+58.4	+72.5	+89.1	+109.7	+138.1
3 30	0.0	+7.1	+14.7	+22.9	+31.8	+41.6	+52.4	+64.5	+78.3	+ 94.5	+114.3
3 40	0.0	+6.5	+13.4	+20.9	+28.9	+37.6	+47.2	+57.7	+69.4	+ 82.7	+ 98.2
3 50	0.0	+5.9	+12.2	+19.0	+26.2	+34.0	+42.5	+51.7	+61.9	+ 73.3	+ 86.1
4 0	0.0	+5.4	+11.1	+17.2	+23.7	+30.8	+38.2	+46.3	+55.2	+ 65.0	+ 76.0
4 10	0.0	+4.9	+10.1	+15.6	+21.4	+27.7	+34.4	+41.6	+49.4	+ 57.9	+ 67.3
4 20	0.0	+4.5	+ 9.1	+14.0	+19.2	+24.8	+30.8	+37.2	+44.0	+ 51.5	+ 59.6
4 30	0.0	+4.0	+ 8.1	+12.5	+17.2	+22.2	+27.5	+33.1	+39.1	+ 45.7	+ 52.7
4 40	0.0	+3.5	+ 7.3	+11.2	+15.3	+19.7	+24.3	+29.3	+34.5	+ 40.2	+ 46.3
4 50	0.0	+3.1	+ 6.4	+ 9.8	+13.4	+17.3	+21.4	+25.6	+30.2	+ 35.1	+ 40.4
5 0	0.0	+2.7	+ 5.5	+ 8.5	+11.6	+15.0	+18.5	+22.2	+26.1	+ 30.3	+ 34.8
5 10	0.0	+2.3	+ 4.7	+ 7.2	+10.0	+12.8	+15.7	+18.9	+22.2	+ 25.7	+ 29.5
5 20	0.0	+2.0	+ 3.9	+ 6.0	+ 8.3	+10.7	+13.1	+15.7	+18.4	+ 21.3	+ 24.4
5 30	0.0	+1.6	+ 3.2	+ 4.8	+ 6.7	+ 8.5	+10.5	+12.6	+14.8	+ 17.1	+ 19.6
5 40	0.0	+1.2	+ 2.4	+ 3.7	+ 5.0	+ 6.5	+ 7.9	+ 9.5	+11.2	+ 13.0	+ 14.8
5 50	0.0	+0.8	+ 1.7	+ 2.6	+ 3.4	+ 4.4	+ 5.5	+ 6.5	+ 7.7	+ 8.9	+ 10.2
6 0	0.0	+0.5	+ 0.9	+ 1.4	+ 1.9	+ 2.4	+ 3.0	+ 3.6	+ 4.2	+ 4.9	+ 5.6
6 10	0.0	+0.1	+ 0.2	+ 0.2	+ 0.4	+ 0.5	+ 0.6	+ 0.7	+ 0.8	+ 0.9	+ 1.1
6 20	0.0	−0.3	− 0.6	− 0.9	− 1.2	− 1.5	− 1.9	− 2.3	− 2.6	− 3.0	− 3.5
6 30	0.0	−0.6	− 1.3	− 2.0	− 2.7	− 3.5	− 4.3	− 5.2	− 6.0	− 7.0	− 8.0
6 40	0.0	−1.0	− 2.1	− 3.1	− 4.3	− 5.5	− 6.8	− 8.1	− 9.5	− 11.0	− 12.6
6 50	0.0	−1.3	− 2.9	− 4.3	− 5.9	− 7.5	− 9.4	−11.2	−13.1	− 15.1	− 17.3
7 0	0.0	−1.7	− 3.6	− 5.5	− 7.5	− 9.6	−11.9	−14.3	−16.7	− 19.3	− 22.2
7 10	0.0	−2.1	− 4.4	− 6.7	− 9.2	−11.7	−14.5	−17.4	−20.4	− 23.7	− 27.1
7 20	0.0	−2.5	− 5.1	− 7.9	−10.8	−13.8	−17.1	−20.6	−24.2	− 28.1	− 32.3
7 30	0.0	−2.9	− 6.0	− 9.2	−12.6	−16.1	−19.9	−24.0	−28.2	− 32.8	− 37.7
7 40	0.0	−3.3	− 6.9	−10.6	−14.4	−18.5	−22.9	−27.5	−32.4	− 37.8	− 43.4
7 50	0.0	−3.8	− 7.7	−12.0	−16.3	−21.0	−25.9	−31.3	−36.9	− 43.0	− 49.6
8 0	0.0	−4.2	− 8.7	−13.4	−18.3	−23.7	−29.2	−35.3	−41.7	− 48.7	− 56.3
8 10	0.0	−4.7	− 9.6	−14.9	−20.4	−26.4	−32.6	−39.5	−46.8	− 54.8	− 63.5
8 20	0.0	−5.2	−10.6	−16.4	−22.6	−29.2	−36.3	−44.0	−52.3	− 61.5	− 71.6
8 30	0.0	−5.7	−11.7	−18.1	−25.0	−32.4	−40.4	−49.1	−58.6	− 69.1	− 81.0
8 40	0.0	−6.3	−12.9	−19.9	−27.6	−35.8	−44.9	−54.9	−65.7	− 77.9	− 92.1
8 50	0.0	−6.8	−14.1	−21.9	−30.5	−39.7	−49.8	−61.2	−73.8	− 88.5	−106.1
9 0	0.0	−7.4	−15.4	−24.1	−33.7	−44.1	−55.3	−68.4	−83.6	−101.4	−125.9

*) *t* ist beim Aufgange der Zeitunterschied zwischen Aufgang und Kulmination, beim Untergange der Zeitunterschied zwischen Kulmination und Untergang

Julianische Periode

I. Anzahl der am o. Januar, 12^h Welt-Zeit, seit Anfang der Periode verflossenen Tage

Jahr n. Chr.	0	100	200	300	400	500	600	700	800	900
	17	17	17	18	18	19	19	19	20	20
0	21057	57582	94107	30632	67157	03682	40207	76732	13257	49782
4	22518	59043	95568	32093	68618	05143	41668	78193	14718	51243
8	23979	60504	97029	33554	70079	06604	43129	79654	16179	52704
12	25440	61965	98490	35015	71540	08065	44590	81115	17640	54165
16	26901	63426	99951	36476	73001	09526	46051	82576	19101	55626
20	28362	64887	01412	37937	74462	10987	47512	84037	20562	57087
24	29823	66348	02873	39398	75923	12448	48973	85498	22023	58548
28	31284	67809	04334	40859	77384	13909	50434	86959	23484	60009
32	32745	69270	05795	42320	78845	15370	51895	88420	24945	61470
36	34206	70731	07256	43781	80306	16831	53356	89881	26406	62931
40	35667	72192	08717	45242	81767	18292	54817	91342	27867	64392
44	37128	73653	10178	46703	83228	19753	56278	92803	29328	65853
48	38589	75114	11639	48164	84689	21214	57739	94264	30789	67314
52	40050	76575	13100	49625	86150	22675	59200	95725	32250	68775
56	41511	78036	14561	51086	87611	24136	60661	97186	33711	70236
60	42972	79497	16022	52547	89072	25597	62122	98647	35172	71697
64	44433	80958	17483	54008	90533	27058	63583	00108	36633	73158
68	45894	82419	18944	55469	91994	28519	65044	01569	38094	74619
72	47355	83880	20405	56930	93455	29980	66505	03030	39555	76080
76	48816	85341	21866	58391	94916	31441	67966	04491	41016	77541
80	50277	86802	23327	59852	96377	32902	69427	05952	42477	79002
84	51738	88263	24788	61313	97838	34363	70888	07413	43938	80463
88	53199	89724	26249	62774	99299	35824	72349	08874	45399	81924
92	54660	91185	27710	64235	00760	37285	73810	10335	46860	83385
96	56121	92646	29171	65696	02221	38746	75271	11796	48321	84846
100	57582	94107	30632	67157	03682	40207	76732	13257	49782	86307
	17	17	18	18	19	19	19	20	20	20

Ia. Anzahl der am o. jedes Monats, 12^h Welt-Zeit, seit Beginn der Schaltperiode verflossenen Tage

Jahr	Jan. 0	Febr. 0	März 0	April 0	Mai 0	Juni 0	Juli 0	Aug. 0	Sept. 0	Okt. 0	Nov. 0	Dez. 0
0	0	31	60	91	121	152	182	213	244	274	305	335
1	366	397	425	456	486	517	547	578	609	639	670	700
2	731	762	790	821	851	882	912	943	974	1004	1035	1065
3	1096	1127	1155	1186	1216	1247	1277	1308	1339	1369	1400	1430

Julianische Periode

I. Anzahl der am 0. Januar, 12^h Welt-Zeit, seit Anfang der Periode verflossenen Tage

Jahr n. Chr.	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900
	20	21	21	21	22	22	23	23	23	24
0	86307	22832	59357	95882	32407	68932	05447	41971[1]	78495[1]	15019[1]
4	87768	24293	60818	97343	33868	70393	06908	43432	79956	16480
8	89229	25754	62279	98804	35329	71854	08369	44893	81417	17941
12	90690	27215	63740	00265	36790	73315	09830	46354	82878	19402
16	92151	28676	65201	01726	38251	74776	11291	47815	84339	20863
20	93612	30137	66662	03187	39712	76237	12752	49276	85800	22324
24	95073	31598	68123	04648	41173	77698	14213	50737	87261	23785
28	96534	33059	69584	06109	42634	79159	15674	52198	88722	25246
32	97995	34520	71045	07570	44095	80620	17135	53659	90183	26707
36	99456	35981	72506	09031	45556	82081	18596	55120	91644	28168
40	00917	37442	73967	10492	47017	83542	20057	56581	93105	29629
44	02378	38903	75428	11953	48478	85003	21518	58042	94566	31090
48	03839	40364	76889	13414	49939	86464	22979	59503	96027	32551
52	05300	41825	78350	14875	51400	87925	24440	60964	97488	34012
56	06761	43286	79811	16336	52861	89386	25901	62425	98949	35473
60	08222	44747	81272	17797	54322	90847	27362	63886	00410	36934
64	09683	46208	82733	19258	55783	92308	28823	65347	01871	38395
68	11144	47669	84194	20719	57244	93769	30284	66808	03332	39856
72	12605	49130	85655	22180	58705	95230	31745	68269	04793	41317
76	14066	50591	87116	23641	60166	96691	33206	69730	06254	42778
80	15527	52052	88577	25102	61627	98152	34667	71191	07715	44239
84	16988	53513	90038	26563	63088	99603	36128	72652	09176	45700
88	18449	54974	91499	28024	64549	01064	37589	74113	10637	47161
92	19910	56435	92960	29485	66010	02525	39050	75574	12098	48622
96	21371	57896	94421	30946	67471	03986	40511	77035	13559	50083
100	22832	59357	95882	32407	68932	05447	41971[1]	78495[1]	15019[1]	51544
	21	21	21	22	22	23	23	23	24	24

[1] Die Zahlen geben die am −1. Jan. seit Anfang der Periode verflossenen Tage

Ia. Anzahl der am 0. jedes Monats, 12^h Welt-Zeit, seit Beginn der Schaltperiode verflossenen Tage

Jahr	Jan. 0	Febr. 0	März 0	April 0	Mai 0	Juni 0	Juli 0	Aug. 0	Sept. 0	Okt. 0	Nov. 0	Dez. 0
0	0[2]	31[2]	60	91	121	152	182	213	244	274	305	335
1	366	397	425	456	486	517	547	578	609	639	670	700
2	731	762	790	821	851	882	912	943	974	1004	1035	1065
3	1096	1127	1155	1186	1216	1247	1277	1308	1339	1369	1400	1430

Von 1582 Okt. 15 bis 1583 Dez. 31 sind die Zahlen der Tafel Ia um 10 zu verkleinern

[2] In den Jahren 1700, 1800, 1900 um 1 zu vergrößern

Julianische Periode

II. Anzahl der seit Beginn der Periode am 0. jedes Monats, 12^h Welt-Zeit, verflossenen Tage

Jahr n. Chr.	Januar 0		Febr. 0	März 0	April 0	Mai 0	Juni 0	Juli 0	Aug. 0	Sept. 0	Okt. 0	Nov. 0	Dez. 0
1860	2400	410	441	470	501	531	562	592	623	654	684	715	745
1861		776	807	835	866	896	927	957	988	*019	*049	*080	*110
1862	2401	141	172	200	231	261	292	322	353	384	414	445	475
1863		506	537	565	596	626	657	687	718	749	779	810	840
1864		871	902	931	962	992	*023	*053	*084	*115	*145	*176	*206
1865	2402	237	268	296	327	357	388	418	449	480	510	541	571
1866		602	633	661	692	722	753	783	814	845	875	906	936
1867		967	998	*026	*057	*087	*118	*148	*179	*210	*240	*271	*301
1868	2403	332	363	392	423	453	484	514	545	576	606	637	667
1869		698	729	757	788	818	849	879	910	941	971	*002	*032
1870	2404	063	094	122	153	183	214	244	275	306	336	367	397
1871		428	459	487	518	548	579	609	640	671	701	732	762
1872		793	824	853	884	914	945	975	*006	*037	*067	*098	*128
1873	2405	159	190	218	249	279	310	340	371	402	432	463	493
1874		524	555	583	614	644	675	705	736	767	797	828	858
1875		889	920	948	979	*009	*040	*070	*101	*132	*162	*193	*223
1876	2406	254	285	314	345	375	406	436	467	498	528	559	589
1877		620	651	679	710	740	771	801	832	863	893	924	954
1878		985	*016	*044	*075	*105	*136	*166	*197	*228	*258	*289	*319
1879	2407	350	381	409	440	470	501	531	562	593	623	654	684
1880		715	746	775	806	836	867	897	928	959	989	*020	*050
1881	2408	081	112	140	171	201	232	262	293	324	354	385	415
1882		446	477	505	536	566	597	627	658	689	719	750	780
1883		811	842	870	901	931	962	992	*023	*054	*084	*115	*145
1884	2409	176	207	236	267	297	328	358	389	420	450	481	511
1885		542	573	601	632	662	693	723	754	785	815	846	876
1886		907	938	966	997	*027	*058	*088	*119	*150	*180	*211	*241
1887	2410	272	303	331	362	392	423	453	484	515	545	576	606
1888		637	668	697	728	758	789	819	850	881	911	942	972
1889	2411	003	034	062	093	123	154	184	215	246	276	307	337
1890		368	399	427	458	488	519	549	580	611	641	672	702
1891		733	764	792	823	853	884	914	945	976	*006	*037	*067
1892	2412	098	129	158	189	219	250	280	311	342	372	403	433
1893		464	495	523	554	584	615	645	676	707	737	768	798
1894		829	860	888	919	949	980	*010	*041	*072	*102	*133	*163
1895	2413	194	225	253	284	314	345	375	406	437	467	498	528
1896		559	590	619	650	680	711	741	772	803	833	864	894
1897		925	956	984	*015	*045	*076	*106	*137	*168	*198	*229	*259
1898	2414	290	321	349	380	410	441	471	502	533	563	594	624
1899		655	686	714	745	775	806	836	867	898	928	959	989

II. Anzahl der seit Beginn der Periode am 0. jedes Monats, 12h Welt-Zeit, verflossenen Tage

Jahr n. Chr.	Januar 0		Febr. 0	März 0	April 0	Mai 0	Juni 0	Juli 0	Aug. 0	Sept. 0	Okt. 0	Nov. 0	Dez. 0
1900	2415	020	051	079	110	140	171	201	232	263	293	324	354
1901		385	416	444	475	505	536	566	597	628	658	689	719
1902		750	781	809	840	870	901	931	962	993	*023	*054	*084
1903	2416	115	146	174	205	235	266	296	327	358	388	419	449
1904		480	511	540	571	601	632	662	693	724	754	785	815
1905		846	877	905	936	966	997	*027	*058	*089	*119	*150	*180
1906	2417	211	242	270	301	331	362	392	423	454	484	515	545
1907		576	607	635	666	696	727	757	788	819	849	880	910
1908		941	972	*001	*032	*062	*093	*123	*154	*185	*215	*246	*276
1909	2418	307	338	366	397	427	458	488	519	550	580	611	641
1910		672	703	731	762	792	823	853	884	915	945	976	*006
1911	2419	037	068	096	127	157	188	218	249	280	310	341	371
1912		402	433	462	493	523	554	584	615	646	676	707	737
1913		768	799	827	858	888	919	949	980	*011	*041	*072	*102
1914	2420	133	164	192	223	253	284	314	345	376	406	437	467
1915		498	529	557	588	618	649	679	710	741	771	802	832
1916		863	894	923	954	984	*015	*045	*076	*107	*137	*168	*198
1917	2421	229	260	288	319	349	380	410	441	472	502	533	563
1918		594	625	653	684	714	745	775	806	837	867	898	928
1919		959	990	*018	*049	*079	*110	*140	*171	*202	*232	*263	*293
1920	2422	324	355	384	415	445	476	506	537	568	598	629	659
1921		690	721	749	780	810	841	871	902	933	963	994	*024
1922	2423	055	086	114	145	175	206	236	267	298	328	359	389
1923		420	451	479	510	540	571	601	632	663	693	724	754
1924		785	816	845	876	906	937	967	998	*029	*059	*090	*120
1925	2424	151	182	210	241	271	302	332	363	394	424	455	485
1926		516	547	575	606	636	667	697	728	759	789	820	850
1927		881	912	940	971	*001	*032	*062	*093	*124	*154	*185	*215
1928	2425	246	277	306	337	367	398	428	459	490	520	551	581
1929		612	643	671	702	732	763	793	824	855	885	916	946
1930		977	*008	*036	*067	*097	*128	*158	*189	*220	*250	*281	*311
1931	2426	342	373	401	432	462	493	523	554	585	615	646	676
1932		707	738	767	798	828	859	889	920	951	981	*012	*042
1933	2427	073	104	132	163	193	224	254	285	316	346	377	407
1934		438	469	497	528	558	589	619	650	681	711	742	772
1935		803	834	862	893	923	954	984	*015	*046	*076	*107	*137
1936	2428	168	199	228	259	289	320	350	381	412	442	473	503
1937		534	565	593	624	654	685	715	746	777	807	838	868
1938		899	930	958	989	*019	*050	*080	*111	*142	*172	*203	*233
1939	2429	264	295	323	354	384	415	445	476	507	537	568	598

Red.	0^m	1^m	2^m	3^m
s	h m s	h m s	h m s	h m s
0	0 0 0	6 5 15	12 10 29	18 15 44
1	0 6 5	6 11 20	12 16 34	18 21 49
2	0 12 10	6 17 25	12 22 40	18 27 54
3	0 18 16	6 23 30	12 28 45	18 33 59
4	0 24 21	6 29 36	12 34 50	18 40 5
5	0 30 26	6 35 41	12 40 55	18 46 10
6	0 36 31	6 41 46	12 47 1	18 52 15
7	0 42 37	6 47 51	12 53 6	18 58 20
8	0 48 42	6 53 56	12 59 11	19 4 26
9	0 54 47	7 0 2	13 5 16	19 10 31
10	1 0 52	7 6 7	13 11 21	19 16 36
11	1 6 58	7 12 12	13 17 27	19 22 41
12	1 13 3	7 18 17	13 23 32	19 28 47
13	1 19 8	7 24 23	13 29 37	19 34 52
14	1 25 13	7 30 28	13 35 42	19 40 57
15	1 31 19	7 36 33	13 41 48	19 47 2
16	1 37 24	7 42 38	13 47 53	19 53 7
17	1 43 29	7 48 44	13 53 58	19 59 13
18	1 49 34	7 54 49	14 0 3	20 5 18
19	1 55 40	8 0 54	14 6 9	20 11 23
20	2 1 45	8 6 59	14 12 14	20 17 28
21	2 7 50	8 13 5	14 18 19	20 23 34
22	2 13 55	8 19 10	14 24 24	20 29 39
23	2 20 1	8 25 15	14 30 30	20 35 44
24	2 26 6	8 31 20	14 36 35	20 41 49
25	2 32 11	8 37 26	14 42 40	20 47 55
26	2 38 16	8 43 31	14 48 45	20 54 0
27	2 44 22	8 49 36	14 54 51	21 0 5
28	2 50 27	8 55 41	15 0 56	21 6 10
29	2 56 32	9 1 47	15 7 1	21 12 16
30	3 2 37	9 7 52	15 13 6	21 18 21
31	3 8 43	9 13 57	15 19 12	21 24 26
32	3 14 48	9 20 2	15 25 17	21 30 31
33	3 20 53	9 26 8	15 31 22	21 36 37
34	3 26 58	9 32 13	15 37 27	21 42 42
35	3 33 3	9 38 18	15 43 33	21 48 47
36	3 39 9	9 44 23	15 49 38	21 54 52
37	3 45 14	9 50 28	15 55 43	22 0 58
38	3 51 19	9 56 34	16 1 48	22 7 3
39	3 57 24	10 2 39	16 7 54	22 13 8
40	4 3 30	10 8 44	16 13 59	22 19 13
41	4 9 35	10 14 49	16 20 4	22 25 19
42	4 15 40	10 20 55	16 26 9	22 31 24
43	4 21 45	10 27 0	16 32 14	22 37 29
44	4 27 51	10 33 5	16 38 20	22 43 34
45	4 33 56	10 39 10	16 44 25	22 49 39
46	4 40 1	10 45 16	16 50 30	22 55 45
47	4 46 6	10 51 21	16 56 35	23 1 50
48	4 52 12	10 57 26	17 2 41	23 7 55
49	4 58 17	11 3 31	17 8 46	23 14 0
50	5 4 22	11 9 37	17 14 51	23 20 6
51	5 10 27	11 15 42	17 20 56	23 26 11
52	5 16 33	11 21 47	17 27 2	23 32 16
53	5 22 38	11 27 52	17 33 7	23 38 21
54	5 28 43	11 33 58	17 39 12	23 44 27
55	5 34 48	11 40 3	17 45 17	23 50 32
56	5 40 54	11 46 8	17 51 23	23 56 37
57	5 46 59	11 52 13	17 57 28	24 2 42
58	5 53 4	11 58 19	18 3 33	24 8 48
59	5 59 9	12 4 24	18 9 38	24 14 53

Red.		Red.	
s	m s	s	m s
0.00	0 0	0.50	3 3
0.01	0 4	0.51	3 6
0.02	0 7	0.52	3 10
0.03	0 11	0.53	3 14
0.04	0 15	0.54	3 17
0.05	0 18	0.55	3 21
0.06	0 22	0.56	3 25
0.07	0 26	0.57	3 28
0.08	0 29	0.58	3 32
0.09	0 33	0.59	3 35
0.10	0 37	0.60	3 39
0.11	0 40	0.61	3 43
0.12	0 44	0.62	3 46
0.13	0 47	0.63	3 50
0.14	0 51	0.64	3 54
0.15	0 55	0.65	3 57
0.16	0 58	0.66	4 1
0.17	1 2	0.67	4 5
0.18	1 6	0.68	4 8
0.19	1 9	0.69	4 12
0.20	1 13	0.70	4 16
0.21	1 17	0.71	4 19
0.22	1 20	0.72	4 23
0.23	1 24	0.73	4 27
0.24	1 28	0.74	4 30
0.25	1 31	0.75	4 34
0.26	1 35	0.76	4 38
0.27	1 39	0.77	4 41
0.28	1 42	0.78	4 45
0.29	1 46	0.79	4 49
0.30	1 50	0.80	4 52
0.31	1 53	0.81	4 56
0.32	1 57	0.82	4 59
0.33	2 1	0.83	5 3
0.34	2 4	0.84	5 7
0.35	2 8	0.85	5 10
0.36	2 11	0.86	5 14
0.37	2 15	0.87	5 18
0.38	2 19	0.88	5 21
0.39	2 22	0.89	5 25
0.40	2 26	0.90	5 29
0.41	2 30	0.91	5 32
0.42	2 33	0.92	5 36
0.43	2 37	0.93	5 40
0.44	2 41	0.94	5 43
0.45	2 44	0.95	5 47
0.46	2 48	0.96	5 51
0.47	2 52	0.97	5 54
0.48	2 55	0.98	5 58
0.49	2 59	0.99	6 2
0.50	3 3	1.00	6 5

Die Reduktion
ist zur mittl. Zeit
zu addieren

Red.	0m	1m	2m	3m	Red.		Red.	
s	h m s	h m s	h m s	h m s	s	m s	s	m s
0	0 0 0	6 6 15	12 12 29	18 18 44	0.00	0 0	0.50	3 3
1	0 6 6	6 12 21	12 18 35	18 24 50	0.01	0 4	0.51	3 7
2	0 12 12	6 18 27	12 24 42	18 30 56	0.02	0 7	0.52	3 10
3	0 18 19	6 24 33	12 30 48	18 37 2	0.03	0 11	0.53	3 14
4	0 24 25	6 30 40	12 36 54	18 43 9	0.04	0 15	0.54	3 18
5	0 30 31	6 36 46	12 43 0	18 49 15	0.05	0 18	0.55	3 21
6	0 36 37	6 42 52	12 49 7	18 55 21	0.06	0 22	0.56	3 25
7	0 42 44	6 48 58	12 55 13	19 1 27	0.07	0 26	0.57	3 29
8	0 48 50	6 55 4	13 1 19	19 7 34	0.08	0 29	0.58	3 32
9	0 54 56	7 1 11	13 7 25	19 13 40	0.09	0 33	0.59	3 36
10	1 1 2	7 7 17	13 13 31	19 19 46	0.10	0 37	0.60	3 40
11	1 7 9	7 13 23	13 19 38	19 25 52	0.11	0 40	0.61	3 43
12	1 13 15	7 19 29	13 25 44	19 31 59	0.12	0 44	0.62	3 47
13	1 19 21	7 25 36	13 31 50	19 38 5	0.13	0 48	0.63	3 51
14	1 25 27	7 31 42	13 37 56	19 44 11	0.14	0 51	0.64	3 54
15	1 31 34	7 37 48	13 44 3	19 50 17	0.15	0 55	0.65	3 58
16	1 37 40	7 43 54	13 50 9	19 56 23	0.16	0 59	0.66	4 2
17	1 43 46	7 50 1	13 56 15	20 2 30	0.17	1 2	0.67	4 5
18	1 49 52	7 56 7	14 2 21	20 8 36	0.18	1 6	0.68	4 9
19	1 55 59	8 2 13	14 8 28	20 14 42	0.19	1 10	0.69	4 13
20	2 2 5	8 8 19	14 14 34	20 20 48	0.20	1 13	0.70	4 16
21	2 8 11	8 14 26	14 20 40	20 26 55	0.21	1 17	0.71	4 20
22	2 14 17	8 20 32	14 26 46	20 33 1	0.22	1 21	0.72	4 24
23	2 20 24	8 26 38	14 32 53	20 39 7	0.23	1 24	0.73	4 27
24	2 26 30	8 32 44	14 38 59	20 45 13	0.24	1 28	0.74	4 31
25	2 32 36	8 38 51	14 45 5	20 51 20	0.25	1 32	0.75	4 35
26	2 38 42	8 44 57	14 51 11	20 57 26	0.26	1 35	0.76	4 38
27	2 44 49	8 51 3	14 57 18	21 3 32	0.27	1 39	0.77	4 42
28	2 50 55	8 57 9	15 3 24	21 9 38	0.28	1 43	0.78	4 46
29	2 57 1	9 3 16	15 9 30	21 15 45	0.29	1 46	0.79	4 49
30	3 3 7	9 9 22	15 15 36	21 21 51	0.30	1 50	0.80	4 53
31	3 9 14	9 15 28	15 21 43	21 27 57	0.31	1 54	0.81	4 57
32	3 15 20	9 21 34	15 27 49	21 34 3	0.32	1 57	0.82	5 0
33	3 21 26	9 27 41	15 33 55	21 40 10	0.33	2 1	0.83	5 4
34	3 27 32	9 33 47	15 40 1	21 46 16	0.34	2 5	0.84	5 8
35	3 33 38	9 39 53	15 46 8	21 52 22	0.35	2 8	0.85	5 11
36	3 39 45	9 45 59	15 52 14	21 58 28	0.36	2 12	0.86	5 15
37	3 45 51	9 52 5	15 58 20	22 4 35	0.37	2 16	0.87	5 19
38	3 51 57	9 58 12	16 4 26	22 10 41	0.38	2 19	0.88	5 22
39	3 58 3	10 4 18	16 10 33	22 16 47	0.39	2 23	0.89	5 26
40	4 4 10	10 10 24	16 16 39	22 22 53	0.40	2 26	0.90	5 30
41	4 10 16	10 16 30	16 22 45	22 29 0	0.41	2 30	0.91	5 33
42	4 16 22	10 22 37	16 28 51	22 35 6	0.42	2 34	0.92	5 37
43	4 22 28	10 28 43	16 34 57	22 41 12	0.43	2 37	0.93	5 41
44	4 28 35	10 34 49	16 41 4	22 47 18	0.44	2 41	0.94	5 44
45	4 34 41	10 40 55	16 47 10	22 53 24	0.45	2 45	0.95	5 48
46	4 40 47	10 47 2	16 53 16	22 59 31	0.46	2 48	0.96	5 52
47	4 46 53	10 53 8	16 59 22	23 5 37	0.47	2 52	0.97	5 55
48	4 53 0	10 59 14	17 5 29	23 11 43	0.48	2 56	0.98	5 59
49	4 59 6	11 5 20	17 11 35	23 17 49	0.49	2 59	0.99	6 3
50	5 5 12	11 11 27	17 17 41	23 23 56	0.50	3 3	1.00	6 6
51	5 11 18	11 17 33	17 23 47	23 30 2				
52	5 17 25	11 23 39	17 29 54	23 36 8				
53	5 23 31	11 29 45	17 36 0	23 42 14				
54	5 29 37	11 35 52	17 42 6	23 48 21				
55	5 35 43	11 41 58	17 48 12	23 54 27				
56	5 41 50	11 48 4	17 54 19	24 0 33				
57	5 47 56	11 54 10	18 0 25	24 6 39				
58	5 54 2	12 0 17	18 6 31	24 12 46				
59	6 0 8	12 6 23	18 12 37	24 18 52				

Die Reduktion ist von der Sternzeit zu subtrahieren

m	0^h	1^h	2^h	3^h	4^h	5^h	s	
	d	d	d	d	d	d		d
0	0.000000	0.041667	0.083333	0.125000	0.166667	0.208333	0	0.000000
1	.000694	.042361	.084028	.125694	.167361	.209028	1	.000012
2	.001389	.043056	.084722	.126389	.168056	.209722	2	.000023
3	.002083	.043750	.085417	.127083	.168750	.210417	3	.000035
4	.002778	.044444	.086111	.127778	.169444	.211111	4	.000046
5	0.003472	0.045139	0.086806	0.128472	0.170139	0.211806	5	0.000058
6	.004167	.045833	.087500	.129167	.170833	.212500	6	.000069
7	.004861	.046528	.088194	.129861	.171528	.213194	7	.000081
8	.005556	.047222	.088889	.130556	.172222	.213889	8	.000093
9	.006250	.047917	.089583	.131250	.172917	.214583	9	.000104
10	0.006944	0.048611	0.090278	0.131944	0.173611	0.215278	10	0.000116
11	.007639	.049306	.090972	.132639	.174306	.215972	11	.000127
12	.008333	.050000	.091667	.133333	.175000	.216667	12	.000139
13	.009028	.050694	.092361	.134028	.175694	.217361	13	.000150
14	.009722	.051389	.093056	.134722	.176389	.218056	14	.000162
15	0.010417	0.052083	0.093750	0.135417	0.177083	0.218750	15	0.000174
16	.011111	.052778	.094444	.136111	.177778	.219444	16	.000185
17	.011806	.053472	.095139	.136806	.178472	.220139	17	.000197
18	.012500	.054167	.095833	.137500	.179167	.220833	18	.000208
19	.013194	.054861	.096528	.138194	.179861	.221528	19	.000220
20	0.013889	0.055556	0.097222	0.138889	0.180556	0.222222	20	0.000231
21	.014583	.056250	.097917	.139583	.181250	.222917	21	.000243
22	.015278	.056944	.098611	.140278	.181944	.223611	22	.000255
23	.015972	.057639	.099306	.140972	.182639	.224306	23	.000266
24	.016667	.058333	.100000	.141667	.183333	.225000	24	.000278
25	0.017361	0.059028	0.100694	0.142361	0.184028	0.225694	25	0.000289
26	.018056	.059722	.101389	.143056	.184722	.226389	26	.000301
27	.018750	.060417	.102083	.143750	.185417	.227083	27	.000313
28	.019444	.061111	.102778	.144444	.186111	.227778	28	.000324
29	.020139	.061806	.103472	.145139	.186806	.228472	29	.000336
30	0.020833	0.062500	0.104167	0.145833	0.187500	0.229167	30	0.000347
31	.021528	.063194	.104861	.146528	.188194	.229861	31	.000359
32	.022222	.063889	.105556	.147222	.188889	.230556	32	.000370
33	.022917	.064583	.106250	.147917	.189583	.231250	33	.000382
34	.023611	.065278	.106944	.148611	.190278	.231944	34	.000394
35	0.024306	0.065972	0.107639	0.149306	0.190972	0.232639	35	0.000405
36	.025000	.066667	.108333	.150000	.191667	.233333	36	.000417
37	.025694	.067361	.109028	.150694	.192361	.234028	37	.000428
38	.026389	.068056	.109722	.151389	.193056	.234722	38	.000440
39	.027083	.068750	.110417	.152083	.193750	.235417	39	.000451
40	0.027778	0.069444	0.111111	0.152778	0.194444	0.236111	40	0.000463
41	.028472	.070139	.111806	.153472	.195139	.236806	41	.000475
42	.029167	.070833	.112500	.154167	.195833	.237500	42	.000486
43	.029861	.071528	.113194	.154861	.196528	.238194	43	.000498
44	.030556	.072222	.113889	.155556	.197222	.238889	44	.000509
45	0.031250	0.072917	0.114583	0.156250	0.197917	0.239583	45	0.000521
46	.031944	.073611	.115278	.156944	.198611	.240278	46	.000532
47	.032639	.074306	.115972	.157639	.199306	.240972	47	.000544
48	.033333	.075000	.116667	.158333	.200000	.241667	48	.000556
49	.034028	.075694	.117361	.159028	.200694	.242361	49	.000567
50	0.034722	0.076389	0.118056	0.159722	0.201389	0.243056	50	0.000579
51	.035417	.077083	.118750	.160417	.202083	.243750	51	.000590
52	.036111	.077778	.119444	.161111	.202778	.244444	52	.000602
53	.036806	.078472	.120139	.161806	.203472	.245139	53	.000613
54	.037500	.079167	.120833	.162500	.204167	.245833	54	.000625
55	0.038194	0.079861	0.121528	0.163194	0.204861	0.246528	55	0.000637
56	.038889	.080556	.122222	.163889	.205556	.247222	56	.000648
57	.039583	.081250	.122917	.164583	.206250	.247917	57	.000660
58	.040278	.081944	.123611	.165278	.206944	.248611	58	.000671
59	.040972	.082639	.124306	.165972	.207639	.249306	59	.000683

m	6^h	7^h	8^h	9^h	10^h	11^h	s	
	d	d	d	d	d	d		d
0	0.250000	0.291667	0.333333	0.375000	0.416667	0.458333	0	0.000000
1	.250694	.292361	.334028	.375694	.417361	.459028	1	.000012
2	.251389	.293056	.334722	.376389	.418056	.459722	2	.000023
3	.252083	.293750	.335417	.377083	.418750	.460417	3	.000035
4	.252778	.294444	.336111	.377778	.419444	.461111	4	.000046
5	0.253472	0.295139	0.336806	0.378472	0.420139	0.461806	5	0.000058
6	.254167	.295833	.337500	.379167	.420833	.462500	6	.000069
7	.254861	.296528	.338194	.379861	.421528	.463194	7	.000081
8	.255556	.297222	.338889	.380556	.422222	.463889	8	.000093
9	.256250	.297917	.339583	.381250	.422917	.464583	9	.000104
10	0.256944	0.298611	0.340278	0.381944	0.423611	0.465278	10	0.000116
11	.257639	.299306	.340972	.382639	.424306	.465972	11	.000127
12	.258333	.300000	.341667	.383333	.425000	.466667	12	.000139
13	.259028	.300694	.342361	.384028	.425694	.467361	13	.000150
14	.259722	.301389	.343056	.384722	.426389	.468056	14	.000162
15	0.260417	0.302083	0.343750	0.385417	0.427083	0.468750	15	0.000174
16	.261111	.302778	.344444	.386111	.427778	.469444	16	.000185
17	.261806	.303472	.345139	.386806	.428472	.470139	17	.000197
18	.262500	.304167	.345833	.387500	.429167	.470833	18	.000208
19	.263194	.304861	.346528	.388194	.429861	.471528	19	.000220
20	0.263889	0.305556	0.347222	0.388889	0.430556	0.472222	20	0.000231
21	.264583	.306250	.347917	.389583	.431250	.472917	21	.000243
22	.265278	.306944	.348611	.390278	.431944	.473611	22	.000255
23	.265972	.307639	.349306	.390972	.432639	.474306	23	.000266
24	.266667	.308333	.350000	.391667	.433333	.475000	24	.000278
25	0.267361	0.309028	0.350694	0.392361	0.434028	0.475694	25	0.000289
26	.268056	.309722	.351389	.393056	.434722	.476389	26	.000301
27	.268750	.310417	.352083	.393750	.435417	.477083	27	.000313
28	.269444	.311111	.352778	.394444	.436111	.477778	28	.000324
29	.270139	.311806	.353472	.395139	.436806	.478472	29	.000336
30	0.270833	0.312500	0.354167	0.395833	0.437500	0.479167	30	0.000347
31	.271528	.313194	.354861	.396528	.438194	.479861	31	.000359
32	.272222	.313889	.355556	.397222	.438889	.480556	32	.000370
33	.272917	.314583	.356250	.397917	.439583	.481250	33	.000382
34	.273611	.315278	.356944	.398611	.440278	.481944	34	.000394
35	0.274306	0.315972	0.357639	0.399306	0.440972	0.482639	35	0.000405
36	.275000	.316667	.358333	.400000	.441667	.483333	36	.000417
37	.275694	.317361	.359028	.400694	.442361	.484028	37	.000428
38	.276389	.318056	.359722	.401389	.443056	.484722	38	.000440
39	.277083	.318750	.360417	.402083	.443750	.485417	39	.000451
40	0.277778	0.319444	0.361111	0.402778	0.444444	0.486111	40	0.000463
41	.278472	.320139	.361806	.403472	.445139	.486806	41	.000475
42	.279167	.320833	.362500	.404167	.445833	.487500	42	.000486
43	.279861	.321528	.363194	.404861	.446528	.488194	43	.000498
44	.280556	.322222	.363889	.405556	.447222	.488889	44	.000509
45	0.281250	0.322917	0.364583	0.406250	0.447917	0.489583	45	0.000521
46	.281944	.323611	.365278	.406944	.448611	.490278	46	.000532
47	.282639	.324306	.365972	.407639	.449306	.490972	47	.000544
48	.283333	.325000	.366667	.408333	.450000	.491667	48	.000556
49	.284028	.325694	.367361	.409028	.450694	.492361	49	.000567
50	0.284722	0.326389	0.368056	0.409722	0.451389	0.493056	50	0.000579
51	.285417	.327083	.368750	.410417	.452083	.493750	51	.000590
52	.286111	.327778	.369444	.411111	.452778	.494444	52	.000602
53	.286806	.328472	.370139	.411806	.453472	.495139	53	.000613
54	.287500	.329167	.370833	.412500	.454167	.495833	54	.000625
55	0.288194	0.329861	0.371528	0.413194	0.454861	0.496528	55	0.000637
56	.288889	.330556	.372222	.413889	.455556	.497222	56	.000648
57	.289583	.331250	.372917	.414583	.456250	.497917	57	.000660
58	.290278	.331944	.373611	.415278	.456944	.498611	58	.000671
59	.290972	.332639	.374306	.415972	.457639	.499306	59	.000683

Hilfstafeln

zur Berechnung der optischen Mondlibration

λ-☊	Δλ	a	B	λ-☊	λ-☊	Δλ	a	B	λ-☊
°	′		° ′	°	°	′		° ′	°
0	+0.0+	−0.0269+	−0 0.0+	180	45	+0.6+	−0.0190+	−1 5.3+	225
1	0.0	268	0 1.6	181	46	0.6	187	1 6.4	226
2	0.0	268	0 3.2	182	47	0.6	183	1 7.5	227
3	0.1	268	0 4.8	183	48	0.6	180	1 8.6	228
4	0.1	268	0 6.4	184	49	0.6	176	1 9.7	229
5	+0.1+	−0.0268+	−0 8.0+	185	50	+0.6+	−0.0173+	−1 10.7+	230
6	0.1	267	0 9.7	186	51	0.6	169	1 11.8	231
7	0.1	267	0 11.3	187	52	0.6	165	1 12.8	232
8	0.2	266	0 12.9	188	53	0.6	162	1 13.8	233
9	0.2	265	0 14.4	189	54	0.6	158	1 14.7	234
10	+0.2+	−0.0264+	−0 16.0+	190	55	+0.6+	−0.0154+	−1 15.6+	235
11	0.2	264	0 17.6	191	56	0.6	150	1 16.5	236
12	0.2	263	0 19.2	192	57	0.6	146	1 17.4	237
13	0.3	262	0 20.8	193	58	0.6	142	1 18.3	238
14	0.3	261	0 22.3	194	59	0.5	138	1 19.2	239
15	+0.3+	−0.0259+	−0 23.9+	195	60	+0.5+	−0.0134+	−1 20.0+	240
16	0.3	258	0 25.5	196	61	0.5	130	1 20.8	241
17	0.3	257	0 27.0	197	62	0.5	126	1 21.5	242
18	0.4	255	0 28.5	198	63	0.5	122	1 22.3	243
19	0.4	254	0 30.1	199	64	0.5	118	1 23.0	244
20	+0.4+	−0.0252+	−0 31.6+	200	65	+0.5+	−0.0114+	−1 23.7+	245
21	0.4	251	0 33.1	201	66	0.5	109	1 24.4	246
22	0.4	249	0 34.6	202	67	0.4	105	1 25.0	247
23	0.4	247	0 36.1	203	68	0.4	101	1 25.6	248
24	0.5	245	0 37.6	204	69	0.4	096	1 26.2	249
25	+0.5+	−0.0243+	−0 39.0+	205	70	+0.4+	−0.0092+	−1 26.8+	250
26	0.5	241	0 40.5	206	71	0.4	87	1 27.3	251
27	0.5	239	0 41.9	207	72	0.4	83	1 27.8	252
28	0.5	237	0 43.4	208	73	0.3	79	1 28.3	253
29	0.5	235	0 44.8	209	74	0.3	74	1 28.8	254
30	+0.5+	−0.0233+	−0 46.2+	210	75	+0.3+	−0.0070+	−1 29.2+	255
31	0.5	230	0 47.6	211	76	0.3	65	1 29.6	256
32	0.6	228	0 48.9	212	77	0.3	60	1 30.0	257
33	0.6	225	0 50.3	213	78	0.2	56	1 30.3	258
34	0.6	223	0 51.6	214	79	0.2	51	1 30.6	259
35	+0.6+	−0.0220+	−0 53.0+	215	80	+0.2+	−0.0047+	−1 30.9+	260
36	0.6	217	0 54.3	216	81	0.2	42	1 31.2	261
37	0.6	214	0 55.6	217	82	0.2	37	1 31.4	262
38	0.6	212	0 56.9	218	83	0.1	33	1 31.6	263
39	0.6	209	0 58.1	219	84	0.1	28	1 31.8	264
40	+0.6+	−0.0206+	−0 59.4+	220	85	+0.1+	−0.0023+	−1 32.0+	265
41	0.6	203	1 0.6	221	86	0.1	19	1 32.1	266
42	0.6	200	1 1.8	222	87	0.1	14	1 32.2	267
43	0.6	196	1 3.0	223	88	0.0	09	1 32.3	268
44	0.6	193	1 4.1	224	89	0.0	05	1 32.3	269
45	+0.6+	−0.0190+	−1 5.3+	225	90	+0.0+	−0.0000+	−1 32.3+	270

$$l' = \lambda + \Delta\lambda - a(B - \beta) - L_{☾}; \quad b' = B - \beta$$

l', b' = Optische Libration der Mondmitte in selenographischer Länge und Breite

λ, β = Länge und Breite des Mondmittelpunktes, berechnet für den Beobachtungsort

$L_{☾}$ = Mittlere Länge des Mondes, ☊ = Mondknoten.

Hilfstafeln

zur Berechnung der optischen Mondlibration

$\lambda-\Omega$	$\Delta\lambda$	a	B	$\lambda-\Omega$	$\lambda-\Omega$	$\Delta\lambda$	a	B	$\lambda-\Omega$
°	′		° ′	°	°	′		° ′	°
90	−0.0−	+0.0000−	−1 32.3+	270	135	−0.6−	+0.0190−	−1 5.3+	315
91	0.0	05	1 32.3	271	136	0.6	193	1 4.1	316
92	0.0	09	1 32.3	272	137	0.6	196	1 3.0	317
93	0.1	14	1 32.2	273	138	0.6	200	1 1.8	318
94	0.1	19	1 32.1	274	139	0.6	203	1 0.6	319
95	−0.1−	+0.0023−	−1 32.0+	275	140	−0.6−	+0.0206−	−0 59.4+	320
96	0.1	28	1 31.8	276	141	0.6	209	0 58.1	321
97	0.1	33	1 31.6	277	142	0.6	212	0 56.9	322
98	0.2	37	1 31.4	278	143	0.6	214	0 55.6	323
99	0.2	42	1 31.2	279	144	0.6	217	0 54.3	324
100	−0.2−	+0.0047−	−1 30.9+	280	145	−0.6−	+0.0220−	−0 53.0+	325
101	0.2	51	1 30.6	281	146	0.6	223	0 51.6	326
102	0.2	56	1 30.3	282	147	0.6	225	0 50.3	327
103	0.3	60	1 30.0	283	148	0.6	228	0 48.9	328
104	0.3	65	1 29.6	284	149	0.5	230	0 47.6	329
105	−0.3−	+0.0070−	−1 29.2+	285	150	−0.5−	+0.0233−	−0 46.2+	330
106	0.3	74	1 28.8	286	151	0.5	235	0 44.8	331
107	0.3	79	1 28.3	287	152	0.5	237	0 43.4	332
108	0.4	83	1 27.8	288	153	0.5	239	0 41.9	333
109	0.4	87	1 27.3	289	154	0.5	241	0 40.5	334
110	−0.4−	+0.0092−	−1 26.8+	290	155	−0.5−	+0.0243−	−0 39.0+	335
111	0.4	096	1 26.2	291	156	0.5	245	0 37.6	336
112	0.4	101	1 25.6	292	157	0.4	247	0 36.1	337
113	0.4	105	1 25.0	293	158	0.4	249	0 34.6	338
114	0.5	109	1 24.4	294	159	0.4	251	0 33.1	339
115	−0.5−	+0.0114−	−1 23.7+	295	160	−0.4−	+0.0252−	−0 31.6+	340
116	0.5	118	1 23.0	296	161	0.4	254	0 30.1	341
117	0.5	122	1 22.3	297	162	0.4	255	0 28.5	342
118	0.5	126	1 21.5	298	163	0.3	257	0 27.0	343
119	0.5	130	1 20.8	299	164	0.3	258	0 25.5	344
120	−0.5−	+0.0134−	−1 20.0+	300	165	−0.3−	+0.0259−	−0 23.9+	345
121	0.5	138	1 19.2	301	166	0.3	261	0 22.3	346
122	0.6	142	1 18.3	302	167	0.3	262	0 20.8	347
123	0.6	146	1 17.4	303	168	0.2	263	0 19.2	348
124	0.6	150	1 16.5	304	169	0.2	264	0 17.6	349
125	−0.6−	+0.0154−	−1 15.6+	305	170	−0.2−	+0.0264−	−0 16.0+	350
126	0.6	158	1 14.7	306	171	0.2	265	0 14.4	351
127	0.6	162	1 13.8	307	172	0.2	266	0 12.9	352
128	0.6	165	1 12.8	308	173	0.1	267	0 11.3	353
129	0.6	169	1 11.8	309	174	0.1	267	0 9.7	354
130	−0.6−	+0.0173−	−1 10.7+	310	175	−0.1−	+0.0268−	−0 8.0+	355
131	0.6	176	1 9.7	311	176	0.1	268	0 6.4	356
132	0.6	180	1 8.6	312	177	0.1	268	0 4.8	357
133	0.6	183	1 7.5	313	178	0.0	268	0 3.2	358
134	0.6	187	1 6.4	314	179	0.0	268	0 1.6	359
135	−0.6−	+0.0190−	−1 5.3+	315	180	−0.0−	+0.0269−	−0 0.0+	360

$$l' = \lambda + \Delta\lambda - a\,(B - \beta) - L_{☾}; \quad b' = B - \beta$$

l', b' = Optische Libration der Mondmitte in selenographischer Länge und Breite

λ, β = Länge und Breite des Mondmittelpunktes, berechnet für den Beobachtungsort

$L_{☾}$ = Mittlere Länge des Mondes, Ω = Mondknoten.

Hilfsgrößen

zur Berechnung der geozentrischen Koordinaten

$\rho \sin \varphi' = s \sin \varphi ; \qquad \rho \cos \varphi' = c \cos \varphi$

φ	$\log s$		$\log c$		φ	$\log s$		$\log c$	
±0°	9.9970705	4	0.0000000	4	±40°	9.9976745	252	0.0006040	252
1	.9970709	14	.0000004	14	41	.9976997	254	.0006292	254
2	.9970723	22	.0000018	22	42	.9977251	255	.0006546	255
3	.9970745	31	.0000040	31	43	.9977506	255	.0006801	255
4	.9970776	40	.0000071	40	44	.9977761	255	.0007056	255
5	9.9970816	49	0.0000111	49	45	9.9978016	256	0.0007311	256
6	.9970865	57	.0000160	57	46	.9978272	255	.0007567	255
7	.9970922	66	.0000217	66	47	.9978527	255	.0007822	255
8	.9970988	74	.0000283	74	48	.9978782	254	.0008077	254
9	.9971062	83	.0000357	83	49	.9979036	252	.0008331	252
10	9.9971145	92	0.0000440	92	50	9.9979288	252	0.0008583	252
11	.9971237	99	.0000532	99	51	.9979540	249	.0008835	249
12	.9971336	108	.0000631	108	52	.9979789	247	.0009084	247
13	.9971444	116	.0000739	116	53	.9980036	245	.0009331	245
14	.9971560	123	.0000855	123	54	.9980281	242	.0009576	242
15	9.9971683	131	0.0000978	131	55	9.9980523	239	0.0009818	239
16	.9971814	139	.0001109	139	56	.9980762	235	.0010057	235
17	.9971953	146	.0001248	146	57	.9980997	232	.0010292	232
18	.9972099	154	.0001394	154	58	.9981229	228	.0010524	228
19	.9972253	160	.0001548	160	59	.9981457	224	.0010752	224
20	9.9972413	168	0.0001708	168	60	9.9981681	220	0.0010976	220
21	.9972581	174	.0001876	174	61	.9981901	215	.0011196	215
22	.9972755	180	.0002050	180	62	.9982116	209	.0011411	209
23	.9972935	187	.0002230	187	63	.9982325	205	.0011620	205
24	.9973122	192	.0002417	192	64	.9982530	199	.0011825	199
25	9.9973314	198	0.0002609	198	65	9.9982729	193	0.0012024	193
26	.9973512	204	.0002807	204	66	.9982922	188	.0012217	188
27	.9973716	209	.0003011	209	67	.9983110	181	.0012405	181
28	.9973925	214	.0003220	214	68	.9983291	175	.0012586	175
29	.9974139	219	.0003434	219	69	.9983466	168	.0012761	168
30	9.9974358	223	0.0003653	223	70	9.9983634	161	0.0012929	161
31	.9974581	227	.0003876	227	71	.9983795	154	.0013090	154
32	.9974808	232	.0004103	232	72	.9983949	147	.0013244	147
33	.9975040	235	.0004335	235	73	.9984096	140	.0013391	140
34	.9975275	238	.0004570	238	74	.9984236	132	.0013531	132
35	9.9975513	241	0.0004808	241	75	9.9984368	124	0.0013663	124
36	.9975754	245	.0005049	245	76	.9984492	117	.0013787	117
37	.9975999	246	.0005294	246	77	.9984609	108	.0013904	108
38	.9976245	249	.0005540	249	78	9984717	100	.0014012	100
39	.9976494	251	.0005789	251	79	.9984817	92	.0014112	92
40	9.9976745		0.0006040		80	9.9984909		0.0014204	

Name	Seehöhe	Geogr. Breite	Länge von Greenwich + westlich	Korr. der Sternzeit	Geoz. Breite	Log. ρ incl. Seehöhe
	m	° ′ ″	h m s	s	° ′ ″	
Abbadia	69	+43 22 52.2	+ 0 7 0.1	+ 1.15	+43 11 17.8	9.999317
Åbo	—	+60 26 56.8	− 1 29 6.30	− 14.64	+60 16 58.8	9.998894
Adelaide	41	−34 55 35.1	− 9 14 19.90	− 91.06	−34 44 42.7	9.999526
Albany (N. Stw.)[1]	40	+42 39 12.8	+ 4 55 7.12	+ 48.48	+42 27 39.7	9.999334
Algier (N. Stw.)[2]	345	+36 48 4.1	− 0 12 8.47	− 1.99	+36 36 57.4	9.999497
Allegheny (N. Stw.)	370	+40 28 58.1	+ 5 20 5.39	+ 52.59	+40 17 31.4	9.999411
Allegheny (A. Stw.)	349	+40 27 41.6	+ 5 20 2.97	+ 52.58	+40 16 15.0	9.999411
Amherst (Neue Stw.)	110	+42 21 56.5	+ 4 50 5.98	+ 47.66	+42 10 24.0	9.999346
Amherst (Alte Stw.)	122	+42 22 17.1	+ 4 50 4.72	+ 47.66	+42 10 44.6	9.999347
Ann Arbor	282	+42 16 48.7	+ 5 34 55.27	+ 55.02	+42 5 16.4	9.999360
Arcetri Zentr. d. St.[3]	184	+43 45 14.4	− 0 45 1.30	− 7.39	+43 33 39.5	9.999316
Arequipa[4]	2451	−16 22 28.0	+ 4 46 11.73	+ 47.02	−16 16 12.7	0.000052
Armagh	64	+54 21 11	+ 0 26 35.48	+ 4.37	+54 10 11.4	9.999041
Athen	110	+37 58 15.5	− 1 34 52.2	− 15.58	+37 47 1.2	9.999456
Bamberg (Remeis' St.)	288	+49 53 6.0	− 0 43 33.57	− 7.15	+49 41 40.0	9.999167
Barcelona[5]	415	+41 24 59.3	− 0 8 30.2	− 1.41	+41 13 29.4	9.999391
Beloit	245	+42 30 8.4	+ 5 56 7.4	+ 58.51	+42 18 35.6	9.999352
Bergedorf Mer.-Kr.	41	+53 28 46.9	− 0 40 57.74	− 6.73	+53 17 40.8	9.999060
Berkeley	94	+37 52 23.5	+ 8 9 2.80	+ 80.34	+37 41 9.8	9.999458
Berlin-Babelsberg[6]	82	+52 24 24.2	− 0 52 25.49	− 8.61	+52 13 11.1	9.999089
Berlin (Urania)	—	+52 31 30.7	− 0 53 27.40	− 8.78	+52 20 18.3	9.999081
Bern	573	+46 57 8.7	− 0 29 45.55	− 4.89	+46 45 34.5	9.999261
Besançon	312	+47 14 59.0	− 0 23 57.1	− 3.93	+47 3 25.3	9.999236
Bogota	2640	+ 4 35 55.2	+ 4 56 19.51	+ 48.68	+ 4 34 4.4	0.000111
Bologna Zentr. d. Stw.	84	+44 29 52.8	− 0 45 24.48	− 7.46	+44 18 17.3	9.999290
Bombay (Colaba)	19	+18 53 36.2	− 4 51 15.60	− 47.85	+18 46 31.1	9.999849
Bonn Zentr. d. Stw.	62	+50 43 45.0	− 0 28 23.18	− 4.66	+50 32 22.7	9.999130
Bordeaux (Floirac)	73	+44 50 7.2	+ 0 2 6.56	+ 0.35	+44 38 31.6	9.999281
Boston (University)[7]	31	+42 20 58	+ 4 44 19.1	+ 46.71	+42 9 25.6	9.999341
Bothkamp[8]	32	+54 12 9.6	− 0 40 31.2	− 6.65	+54 1 8.8	9.999042
Breslau Zentr. d. Stw.	147	+51 6 56.5	− 1 8 8.72	− 11.19	+50 55 36.1	9.999126
Breslau Neue Sternw.	117	+51 6 41	− 1 8 21.19	− 11.23	+50 55 20.6	9.999130
Brisbane	51	−27 28 23.0	−10 12 6.48	−100.55	−27 18 54.6	9.999694
Brüssel (Alte Sternw.) Pass. Instr.	56	+50 51 10.7	− 0 17 28.71	− 2.87	+50 39 49.0	9.999126
Brüssel (Uccle) Mer.-Kr.	105	+50 47 54.6	− 0 17 26.05	− 2.86	+50 36 32.7	9.999131
Budapest Univ. Stw.	110	+47 29 34.7	− 1 16 15.4	− 12.53	+47 18 1.5	9.999215

[1]) Dudley Observatory, seit Juni 1893. Alte Sternwarte 37″.0 nördlich, 7s.10 östlich. — [2]) Alte Sternwarte 3′.8 südlich, 8s östlich. — [3]) Seit Oktober 1872, früher in Florenz. — [4]) 1927 geschlossen und nach Bloemfontain verlegt. — [5]) J. Comas Solá. — [6]) Die Koordinaten beziehen sich auf die Mitte der großen Kuppel, in der der große Refraktor aufgestellt ist. Die frühere Sternwarte in Berlin (seit 1835) lag 5′ 52″.5 nördlich und 1m 9s.31 östlich. — [7]) Die alte Sternwarte lag 4s.1 östlich, 34″.5 nördlich. — [8]) Herr von Bülow.

Koordinaten der Sternwarten

Name	Seehöhe	Geogr. Breite	Länge von Greenwich + westlich	Korr. der Sternzeit	Geoz. Breite	Log. ρ incl. Seehöhe
	m	° ′ ″	h m s	s	° ′ ″	
Budapest[1]	110	+47 28 49	−1 16 13.7	−12.53	+47 17 16	9.999215
Bukarest (Mil. Geogr. Inst.)	85	+44 24 34.2	−1 44 27.01	−17.16	+44 12 58.7	9.999292
Cambridge Engl. . .	28	+52 12 51.6	−0 0 22.75	− 0.06	+52 1 37.3	9.999090
Cambridge Mass.[2] .	24	+42 22 47.6	+4 44 31.05	+46.74	+42 11 15.1	9.999340
Cap d. gut. Hoffnung	10	−33 56 6.8	−1 13 54.73	−12.14	−33 45 23.2	9.999547
Catania	47	+37 30 13.3	−1 0 20.6	− 9.91	+37 19 1.9	9.999466
Charkow	139	+50 0 9.9	−2 24 55.72	−23.81	+49 48 44.4	9.999153
Charlottenburg, Techn. Hochsch.	60	+52 30 48.7	−0 53 20.5	− 8.76	+52 19 36.2	9.999085
Charlottesville[3] . .	259	+38 2 1.2	+5 14 5.33	+51.60	+37 50 46.5	9.999464
Christiania (Oslo) Mer.-Kr.	25	+59 54 43.7	−0 42 53.51	− 7.04	+59 44 39.2	9.998908
Cincinnati (Alte Stw.) .	—	+39 6 26.5	+5 37 59.09	+55.52	+38 55 6.0	9.999421
Cincinnati (Neue Stw.)[4]	247	+39 8 19.8	+5 37 41.40	+55.47	+38 56 59.1	9.999437
Cleveland (Case Obs.) .	215	+41 30 14.5	+5 26 25.86	+53.63	+41 18 44.3	9.999375
Coimbra	99	+40 12 24.5	+0 33 43.1	+ 5.54	+40 0 58.9	9.999400
Columbia Missouri[5] .	225	+38 56 12	+6 9 18.37	+60.67	+38 44 52.3	9.999442
Cordoba	434	−31 25 15.5	+4 16 48.22	+42.19	−31 14 57.5	9.999635
Danzig	3	+54 21 18.0	−1 14 39.6	−12.26	+54 10 18.4	9.999036
Denver[6]	1644	+39 40 36.4	+6 59 47.72	+68.96	+39 29 13.1	9.999519
Dorpat (Tartu, Jurjew) Mer. Kr.	67	+58 22 47.2	−1 46 53.19	−17.56	+58 12 25.1	9.998946
Dresden (Geodät. Inst.)	168	+51 1 49.3	−0 54 55.1	− 9.02	+50 50 28.5	9.999130
Dresden (Mathem. Salon)	—	+51 3 14.7	−0 54 55.83	− 9.02	+50 51 54.0	9.999117
Dublin (Dunsink Obs.) .	86	+53 23 13.1	+0 25 21.1	+ 4.17	+53 12 6.4	9.999065
Düsseldorf (Bilk) . . .	46	+51 12 25.0	−0 27 2.69	− 4.44	+51 1 5.1	9.999117
Durham	108	+54 46 6.2	+0 6 19.75	+ 1.04	+54 35 9.8	9.999033
Edinburgh	146	+55 55 30	+0 12 44.1	+ 2.09	+55 44 43.5	9.999008
Edinburgh (Blackf. Hill)	134	+55 55 28.0	+0 12 44.0	+ 2.09	+55 44 41.5	9.999007
Evanston (Dearborn Obs.)	175	+42 3 33.4	+5 50 42.3	+57.61	+41 52 1.6	9.999358
Flagstaff (Lowell Obs.) .	2210	+35 12 30.5	+7 26 44.6	+73.39	+35 1 35.8	9.999667
Florenz (Alte Sternw.)[7]	73	+43 46 4.1	−0 44 59.6	− 7.39	+43 34 29.2	9.999308
Florenz (Mil. Geogr. Inst.)	72	+43 46 49.4	−0 45 2.5	− 7.40	+43 35 14.5	9.999308
Frankfurt a. M. . .	121	+50 7 0	−0 34 36.3	− 5.70	+49 55 34.6	9.999149
Genf Mer.-Kreis	406	+46 11 59.3	−0 24 36.53	− 4.04	+46 0 24.1	9.999269
Genua (Mar. Stw.) Mer.-Kr.	108	+44 25 8.1	−0 35 41.28	− 5.86	+44 13 32.6	9.999294
Georgetown D. C. . .	62	+38 54 26.2	+5 8 18.33	+50.65	+38 43 6.7	9.999430
Glasgow Schottl. . .	55	+55 52 42.1	+0 17 10.55	+ 2.82	+55 41 55.2	9.999003
Glasgow Missouri . .	228	+39 13 45.6	+6 11 18.06	+61.00	+39 2 24.5	9.999433

[1]) Observ. der Kgl. Josef-Technischen Hochschule. — [2]) Harvard College Observatory. — [3]) Leander Mc. Cormick Obs. der University of Virginia. — [4]) Mount Lookout seit 1873. — [5]) Laws Observatory. — [6]) University Park, Chamberlin Observatory. — [7]) 1872 nach Arcetri verlegt.

Name	Seehöhe	Geogr. Breite	Länge von Greenwich + westlich	Korr. der Sternzeit	Geoz. Breite	Log. ρ incl. Seehöhe
	m	° ′ ″	h m s	s	° ′ ″	
Göttingen Mer.-Kreis . .	161	+51 31 48.2	−0 39 46.22	− 6.53	+51 20 30.0	9.999117
Gotha (Neue Stw.) Zentr. d. St.[1])	322	+50 56 37.9	−0 42 50.51	− 7.04	+50 45 16.7	9.999142
Graz	375	+47 4 37.2	−1 1 47.71	−10.15	+46 53 3.2	9.999244
Greenwich Transit Circle	47	+51 28 38.2	0 0 0.00	0.00	+51 17 19.7	9.999110
Groningen	4	+53 13 13.8	−0 26 15.11	− 4.31	+53 2 6.0	9.999064
Hamburg (Alt. Stw.) M.-Kr.[2])	25	+53 33 6.0	−0 39 53.60	− 6.55	+53 22 0.4	9.999057
Hamburg (D. Seewarte) .	30	+53 32 51.8	−0 39 53.42	− 6.55	+53 21 46.2	9.999058
Hanover N. H.	183	+43 42 15.3	+4 49 8.00	+47.50	+43 30 40.5	9.999317
Haverford	116	+40 0 40.1	+5 1 12.7	+49.48	+39 49 15.4	9.999406
Heidelberg (Wolfs Stw.)	126	+49 24 35	−0 34 48.4	− 5.72	+49 13 7	9.999159
Heidelberg (Königst.) M.-Kr.	570	+49 23 54.6	−0 34 53.13	− 5.73	+49 12 26.8	9.999198
Helsingfors Mer.-Kreis .	33	+60 9 42.3	−1 39 49.10	−16.40	+59 59 40.8	9.998903
Helwan	115	+29 51 31.1	−2 5 21.77	−20.59	+29 41 31.4	9.999648
Hongkong	33	+22 18 13.2	−7 36 41.25	−75.02	+22 10 5.8	9.999793
Hyderabad-Deccan[3])	554	+17 25 54.3	−5 13 48.98	−51.55	+17 19 17.7	9.999007
Innsbruck	605	+47 16 7.7	−0 45 31.42	− 7.48	+47 4 34.0	9.999254
Jena (Univers.) Zentr. d. St.	164	+50 55 35.6	−0 46 20.22	− 7.61	+50 44 14.3	9.999131
Jena (Winkler)	174	+50 56 15.7	−0 46 20.73	− 7.61	+50 44 54.5	9.999132
Johannesburg	1786	−26 10 52.1	−1 52 17.9	−18.45	−26 1 42.0	9.999839
Johannesburg (Filiale des Yale Observ.)	1730	−26 11	−1 52 9	−18.42	−26 2	9.999835
Kairo	—	+30 4 38.2	−2 5 8.80	−20.56	+29 54 35.8	9.999635
Kalocsa[4])	102	+46 31 42.4	−1 15 54.34	−12.47	+46 20 7.6	9.999239
Karlsruhe[5])	110	+49 0 29.6	−0 33 35.40	− 5.52	+48 49 0.4	9.999177
Kasan (Univers.)	79	+55 47 24.3	−3 16 29.03	−32.28	+55 36 36.6	9.999007
Kasan (Engelhardt) . . .	98	+55 50 20.5	−3 15 15.74	−32.08	+55 39 33.2	9.999007
Kew	10	+51 28 6	+0 1 15.1	+ 0.21	+51 16 47.5	9.999108
Kiel Neuer Mer.-Kreis . .	52	+54 20 27.6	−0 40 35.45	− 6.67	+54 9 27.9	9.999040
Kiel Alter Mer.-Kreis . .	47	+54 20 28.5	−0 40 35.57	− 6.67	+54 9 28.8	9.999040
Kiew Mer.-Kreis	184	+50 27 11.8	−2 2 0.56	−20.04	+50 15 48.3	9.999145
Kodaikanal	2343	+10 13 50	−5 9 52.0	−50.94	+10 9 47.6	0.000114
Königsberg Reps. M.-Kr.[6])	22	+54 42 50.6	−1 21 58.98	−13.47	+54 31 53.8	9.999029
Konstanz[7])	420	+47 39 43.6	−0 36 42.01	− 6.03	+47 28 10.7	9.999232
Kopenhagen (Neue Stw.)[8])	14	+55 41 12.6	−0 50 18.69	− 8.26	+55 30 24.0	9.999005
Kopenhagen (Urania-St.)	10	+55 41 19.2	−0 50 9.11	− 8.24	+55 30 30.6	9.999005
Krakau Mer.-Kreis . . .	221	+50 3 51.9	−1 19 50.28	−13.11	+49 52 26.7	9.999158
Kremsmünster Mer.-Kr.	384	+48 3 23.1	−0 56 31.58	− 9.28	+47 51 51.1	9.999219

[1]) Seit 1857, früher Seeberg. — [2]) 1909 nach Bergedorf verlegt. — [3]) Nizamiah Observatory. — [4]) Erzbischöfl. Haynaldsche Sternwarte. — [5]) 1896 nach Heidelberg verlegt. — [6]) Nach 1898, vor 1898 0s.01 westlich. — [7]) Privatsternwarte von E. Leiner. — [8]) Seit 1861 Nov. 11. Alte Sternwarte 20″.3 südlich, 0s.03 westlich.

Koordinaten der Sternwarten

Name	Seehöhe	Geogr. Breite	Länge von Greenwich + westlich	Korr. der Sternzeit	Geoz. Breite	Log. ρ incl. Seehöhe
	m	° ′ ″	h m s	s	° ′ ″	
Kyoto	55	+35 1 37.1	−9 3 6.70	−89.22	+34 50 43.9	9.999525
Landstuhl (Fauth) . . .	385	+49 24 42.5	−0 30 16.35	− 4.97	+49 13 14.7	9.999185
La Plata Mer. Kr. Gautier	17	−34 54 30.3	+3 51 44.85	+38.07	−34 43 38.1	9.999525
Leiden (Neue Stw.) Mer.-Kr.[1]	6	+52 9 19.8	−0 17 56.15	− 2.94	+51 58 5.2	9.999090
Leipzig (Neue Stw.) Zentr.[2]	119	+51 20 5.9	−0 49 33.93	− 8.14	+51 8 46.7	9.999119
Lembang (Bosscha St.) .	1300	− 6 49 29.1	−7 10 27.81	−70.71	− 6 46 45.5	0.000068
Lemberg (Techn. Hochsch.) Pass. Instr.	340	+49 50 11.2	−1 36 3.40	−15.78	+49 38 45.0	9.999171
Leningrad (Petersburg) (Akad.) .	20	+59 56 29.7	−2 1 13.35	−19.91	+59 46 25.5	9.998907
Leningrad (Petersburg) (Univers.) .	4	+59 56 32.0	−2 1 11.3	−19.91	+59 46 27.8	9.998906
Lissabon (Tapada) . .	94	+38 42 30.5	+0 36 44.68	+ 6.04	+38 31 12.0	9.999437
Lissabon (Mar. Stw.) . .	—	+38 42 17.6	+0 36 33.6	+ 6.01	+38 30 59.2	9.999431
Liverpool (Neue Stw.)[3]	62	+53 24 4.8	+0 12 17.33	+ 2.02	+53 12 58.2	9.999063
Lourenço Marques .	60	−25 58 5.5	−2 10 22.63	−21.42	−25 48 58.9	9.999725
Lübeck (Navig.-Sch.) .	19	+53 51 31.1	−0 42 45.6	− 7.02	+53 40 27.8	9.999049
Lund Zentr. d. Stw. . .	34	+55 41 51.6	−0 52 44.97	− 8.66	+55 31 3.1	9.999006
Lüttich Ougrée . . .	128	+50 37 6	−0 22 12	− 3.65	+50 25 43	9.999137
Lyon	299	+45 41 40.8	−0 19 8.5	− 3.14	+45 30 5.3	9.999274
Madison (Washburn Obs.)	292	+43 4 36.8	+5 57 37.90	+58.75	+42 53 2.9	9.999340
Madras	7	+13 4 8.0	−5 20 59.65	−52.73	+12 59 2.5	9.999926
Madrid Zentr. d. Stw. .	656	+40 24 30.1	+0 14 45.09	+ 2.43	+40 13 3.7	9.999433
Mailand, Brera . . .	120	+45 27 59.2	−0 36 45.89	− 6.04	+45 16 23.6	9.999268
Manila	3	+14 35 25	−8 3 50	−79.48	+14 29 47	9.999908
Mannheim Zentr. d. Stw.	98	+49 29 11.0	−0 33 50.42	− 5.56	+49 17 43.5	9.999164
Marburg	248	+50 48 46.9	−0 35 4.9	− 5.76	+50 37 25.0	9.999141
Mare Island Calif. .	18	+38 5 55.8	+8 9 5.63	+80.35	+37 54 40.8	9.999447
Markree (Col. Cooper) .	45	+54 10 31.7	+0 33 48.4	+ 5.56	+53 59 30.7	9.999043
Marseille (N. St.) M.-Kr.[4]	75	+43 18 19.1	−0 21 34.56	− 3.54	+43 6 44.8	9.999320
Melbourne	28	−37 49 53.4	−9 39 54.17	−95.26	−37 38 39.9	9.999454
Meudon	162	+48 48 18	−0 8 55.5	− 1.46	+48 36 48	9.999185
Mexico	2277	+19 26 1.3	+6 36 26.71	+65.13	+19 18 45.9	9.999995
Middletown, Conn. .	70	+41 33 18	+4 50 38.2	+47.74	+41 21 47.6	9.999364
Mizusawa	61	+39 8 3.4	−9 24 31.46	−92.74	+38 56 42.7	9.999424
Modena	63	+44 38 52.8	−0 43 42.8	− 7.18	+44 27 17.2	9.999285
Montreal	57	+45 30 20	+4 54 18.63	+48.35	+45 18 44.4	9.999263
Mt. Hamilton (Lick) Mkr.	1283	+37 20 25.6	+8 6 34.86	+79.94	+37 9 15.2	9.999552
Mt. Wilson Calif. . .	1742	+34 12 59.5	+7 52 14.33	+77.57	+34 2 13.3	9.999659

¹) Seit 1860. Alte Sternwarte 8″.0 nördlich, $0^s.42$ östlich. — ²) Seit 1861. Alte Sternwarte 14″.2 nördlich, $4^s.00$ westlich. — ³) Alte Sternwarte 44″.0 nördlich, $17^s.1$ östlich. — ⁴) Seit 1866. Alte Sternwarte 30″.1 südlich, $6^s.2$ westlich; 29^m.

Name	Seehöhe	Geogr. Breite	Länge von Greenwich + westlich	Korr. der Sternzeit	Geoz. Breite	Log. ρ incl. Seehöhe
	m	° ′ ″	h m s	s	° ′ ″	
Moskau Mer.-Kr. . . .	142	+55 45 19.5	−2 30 17.03	−24.69	+55 34 31.5	9.999012
Mundenheim[1]) . . .	—	+49 27 30	−0 33 44	− 5.54	+49 16 2	9.999158
München West-Kuppel	529	+48 8 45.5	−0 46 26.02	− 7.63	+47 57 13.8	9.999227
Münster	75	+51 57 45.8	−0 30 29.66	− 5.01	+51 46 30.0	9.999100
Nashville (Vanderbilt Obs.)	174	+36 8 58.2	+5 47 12.81	+57.04	+35 57 56.1	9.999506
Natal	79	−29 50 46.6	−2 4 1.18	−20.37	−29 40 47.0	9.999645
Neapel (Capo di M.) . .	164	+40 51 45.4	−0 57 1.38	− 9.37	+40 40 17.3	9.999388
Neuchâtel Refraktor .	488	+46 59 49.5	−0 27 49.57	− 4.57	+46 48 15.4	9.999254
New Haven (Neue Stw.)[2])	40	+41 19 22.3	+4 51 40.58	+47.92	+41 7 52.7	9.999368
New York (Rutherfurd)	—	+40 43 48.5	+4 55 56.66	+48.62	+40 32 20.9	9.999380
New York (Columb. Obs.)	—	+40 45 23.1	+4 55 53.73	+48.61	+40 33 55.4	9.999379
Nikolajew Mer.-Kr. . .	55	+46 58 19.3	−2 7 53.98	−21.01	+46 46 45.1	9.999225
Nizza Kl. Mer.-Kr.[3]) . .	378	+43 43 16.9	−0 29 12.15	− 4.79	+43 31 42.0	9.999330
Northfield (Goodsell Obs.)	290	+44 27 41.4	+6 12 35.94	+61.21	+44 16 5.9	9.999305
Oakland Californ.[4]) .	99	+37 47	+8 8 48	+80.30	+37 35 47	9.999460
Odessa (Univ.-Stw.) Mer.-Kr.	55	+46 28 36.2	−2 3 2.05	−20.21	+46 17 1.3	9.999237
Odessa (Filiale Pulkowa)	—	+46 28 36.0	−2 3 2.19	−20.21	+46 17 1.1	9.999234
Oslo (Christiania) Mer.-Kr.	25	+59 54 43.7	−0 42 53.51	− 7.04	+59 44 39.2	9.998908
Ottawa Mer.-Kr. . . .	85	+45 23 39.1	+5 2 51.98	+49.75	+45 12 3.5	9.999267
Oxford (Radcl. Obs.) . .	65	+51 45 33.9	+0 5 3.0	+ 0.83	+51 34 17.0	9.999104
Oxford (Univers.) . . .	64	+51 45 34.2	+0 5 0.4	+ 0.82	+51 34 17.3	9.999104
Oxford, Mississippi .	140	+34 22 12.6	+5 58 7.18	+58.83	+34 11 25.1	9.999546
Padua	38	+45 24 1.2	−0 47 29.15	− 7.80	+45 12 25.6	9.999263
Palermo	72	+38 6 44.0	−0 53 25.87	− 8.78	+37 55 28.9	9.999451
Paris (Obs. nat.) Mer. Cassini	59	+48 50 11.2	−0 9 20.93	− 1.53	+48 38 41.5	9.999177
Paris (Montsouris) westl. Mer.	—	+48 49 18.0	−0 9 20.6	− 1.53	+48 37 48.2	9.999174
Peking	—	+39 54 23.0	−7 45 52.87	−76.53	+39 42 58.7	9.999401
Perth West.-Austr. . .	60	−31 57 10.7	−7 43 21.62	−76.12	−31 46 46.9	9.999597
Petersburg (Leningrad) (Akademie) .	20	+59 56 29.7	−2 1 13.35	−19.91	+59 46 25.5	9.998907
Petersburg (Leningrad) (Univers.) .	4	+59 56 32.0	−2 1 11.3	−19.91	+59 46 27.8	9.998906
Philadelphia[5]) . . .	74	+39 58 2.1	+5 1 6.88	+49.47	+39 46 37.5	9.999404
Plonsk[6])	—	+52 37 40.0	−1 21 31.9	−13.39	+52 26 28.2	9.999078
Pola	32	+44 51 48.6	−0 55 23.07	− 9.10	+44 40 12.9	9.999277
Porto Alegre[7]) Mer.-Kr.	—	−30 1 51	+3 24 53.2	+33.66	−29 51 49	9.999636
Portsmouth	—	+50 48 3	+0 4 24.8	+ 0.73	+50 36 41	9.999124
Posen (Poznań) . . .	85	+52 23 48.6	−1 7 30.60	−11.09	+52 12 35.4	9.999090

[1]) Dr. Max Mündler. — [2]) Yale University. Alte Sternwarte 45″.8 südlich, 1s.58 westlich. — [3]) Herr R. Bischofsheim. — [4]) Chabot Observatory. — [5]) Flower Obs. (Univ. of Pennsylvania). — [6]) Dr. Jedrzejewicz; 1898 nach Warschau verlegt. — [7]) Observatorio Regional do Rio Grande do Sul.

Koordinaten der Sternwarten

Name	Seehöhe	Geogr. Breite	Länge von Greenwich + westlich	Korr. der Sternzeit	Geoz. Breite	Log. ρ incl. Seehöhe
	m	° ′ ″	h m s	s	° ′ ″	
Potsdam (Astrophys. Obs.)	97	+52 22 56.0	— 0 52 15.86	— 8.58	+52 11 42.7	9.999091
Potsdam (Geod.Inst.) Turm	99	+52 22 54.8	— 0 52 16.11	— 8.58	+52 11 41.5	9.999091
Poughkeepsie[1]) . . .	61	+41 41 18	+ 4 55 33.6	+48.56	+41 29 47	9.999360
Prag (Univ.-Stw.) Turm .	197	+50 5 16.0	— 0 57 40.29	— 9.47	+49 53 50.9	9.999155
Prag (Safarik)	—	+50 4 24	— 0 57 48	— 9.49	+49 52 59	9.999142
Princeton N. J. (N. Stw.)[2])	75	+40 20 55.8	+ 4 58 39.44	+49.06	+40 9 29.7	9.999395
Providence[3])	171	+41 49 46.4	+ 4 45 37.64	+46.92	+41 38 15.2	9.999363
Pulkowa Zentr. d. Stw.	75	+59 46 18.5	— 2 1 18.57	—19.93	+59 36 12.3	9.998914
Quebec Canada . . .	90	+46 47 59.2	+ 4 44 52.71	+46.80	+46 36 24.8	9.999231
Quito	2846	— 0 14 0	+ 5 13 58.20	+51.58	— 0 13 54	0.000194
Riga (Polytechnikum) Turm	—	+56 57 7	— 1 36 28.11	—15.84	+56 46 30	9.998974
Rio de Janeiro . . .	63	—22 54 23.7	+ 2 52 41.52	+28.37	—22 46 6.0	9.999784
Rio de Janeiro (N. Stw.)	33	—22 53 41	+ 2 52 53.5	+28.40	—22 45 24	9.999782
Rom (Coll. Rom.) Mer.-Kr.	59	+41 53 53.6	— 0 49 55.36	— 8.19	+41 42 22.3	9.999354
Rom (Capitol) Mer.-Kr. .	65	+41 53 33.2	— 0 49 56.34	— 8.20	+41 42 1.9	9.999355
Rom (Vatican) Mer.-Kr. .	100	+41 54 12.4	— 0 49 48.26	— 8.18	+41 42 41.1	9.999357
Rousdon	157	+50 42 38	+ 0 11 58.9	+ 1.96	+50 31 16	9.999137
Rugby	119	+52 22 30	+ 0 5 2.0	+ 0.83	+52 11 16.7	9.999093
St. Louis Missouri .	—	+38 38 3.6	+ 6 0 49.15	+59.28	+38 26 45.5	9.999433
San Fernando . . .	30	+36 27 42.0	+ 0 24 49.30	+ 4.08	+36 16 37.7	9.999488
San Francisco[4]) . .	—	+37 47 28.0	+ 8 9 42.81	+80.45	+37 36 14.8	9.999453
Santiago de Chile (N. St.)	580	—33 33 44.2	+ 4 42 46.0	+46.44	—33 23 4.1	9.999595
Santiago de Chile (A. St.)	619	—33 26 25.4	+ 4 42 36.9	+46.42	—33 15 46.4	9.999600
Sétif	1120	+36 11 10	— 0 21 38.6	— 3.55	+36 0 7.7	9.999569
Simeïs	360	+44 24 11.1	— 2 15 58.1	—22.34	+44 12 35.6	9.999312
Sonneberg (Hoffmeister)	405	+50 21 29.5	— 0 44 42.87	— 7.34	+50 10 5.5	9.999163
Sonneberg (Erbisbühl)	640	+50 22 41.4	— 0 44 46.19	— 7.36	+50 11 17.5	9.999178
South Hadley	76	+42 15 18.2	+ 4 50 19	+47.69	+42 3 45.9	9.999346
Stará Dala[5])	113	+47 52 27.3	— 1 12 45.49	—11.95	+47 40 54.9	9.999206
Stockholm Mer.-Kreis	44	+59 20 32.7	— 1 12 13.97	—11.86	+59 10 21.4	9.998922
Stonyhurst	116	+53 50 40.0	+ 0 9 52.7	+ 1.62	+53 39 36.5	9.999056
Straßburg (N. St.). M.-Kr.[6])	144	+48 35 0.4	— 0 31 4.53	— 5.10	+48 23 29.9	9.999190
Sydney	44	—33 51 41.1	—10 4 49.54	—99.36	—33 40 58.2	9.999551
Tacubaya)	2311	+19 24 17.9	+ 6 36 46.71	+65.18	+19 17 3.0	9.999997
Tartu (Dorpat, Jurjew) Mer.-Kr.	67	+58 22 47.2	— 1 46 53.19	—17.56	+58 12 25.1	9.998946
Taschkent	479	+41 19 36.7	— 4 37 10.57	—45.53	+41 8 7.1	9.999398

[1]) Vassar College. — [2]) Alte Sternwarte 2″.0 nördlich, $1^s.94$ östlich; 65^m. — [3]) Seagrave. Ladd Observatory 35″ nördlich, $1^s.57$ östlich. — [4]) Davidson Observatory. — [5]) Früher O-Gyalla. — [6]) Seit Anfang 1881. — [7]) Seit März 1883, früher in Chapultepec.

Name	Seehöhe	Geogr. Breite	Länge von Greenwich + westlich	Korr. der Sternzeit	Geoz. Breite	Log. ρ incl. Seehöhe
	m	° ′ ″	h m s	s	° ′ ″	
Teramo (Cerulli)	398	+42 39 27	− 0 54 55.8	− 9.02	+42 27 54	9.999358
Tokio	59	+35 40 21.4	− 9 18 10.09	− 91.69	+35 29 23.0	9.999509
Toronto	116	+43 40 1.3	+ 5 17 34.67	+ 52.17	+43 28 26.5	9.999313
Tortosa (Ebro-Stw.) M.-Kr.	54	+40 49 14	− 0 1 58	− 0.32	+40 37 46	9.999382
Toulouse Mer.-Kr.	195	+43 36 44.0	− 0 5 51.2	− 0.96	+43 25 9.3	9.999320
Triest	23	+45 38 45.4	− 0 55 2.90	− 9.04	+45 27 9.9	9.999256
Tsingtau (Met.-astr. Stat.)	—	+36 4 11.3	− 8 1 16.21	− 79.06	+35 53 9.8	9.999496
Tucson Arizona (Steward Obs.)	757	+32 13 59.4	+ 7 23 47.68	+ 72.90	+32 3 32.6	9.999638
Turin Mer.-Kr.	276	+45 4 7.9	− 0 30 47.15	− 5.06	+44 52 32.2	9.999288
Turin (Pino Torinese)	618	+45 2 16.3	− 0 31 5.95	− 5.11	+44 50 40.6	9.999312
Upsala (N. Stw.) Pass.-Instr.	21	+59 51 29.4	− 1 10 30.13	− 11.58	+59 41 24.2	9.998909
Urbana Jll.	236	+40 6 20.2	+ 5 52 53.90	+ 57.97	+39 54 55.1	9.999412
Utrecht	12	+52 5 9.5	− 0 20 31.6	− 3.37	+51 53 54.4	9.999093
Valkenburg (Ignatius Coll.)	100	+50 52 29.3	− 0 23 19.91	− 3.83	+50 41 7.8	9.999129
Venedig	15	+45 26 10.5	− 0 49 22.12	− 8.11	+45 14 34.9	9.999261
Victoria B. C. (Dominion Obs.)	229	+48 31 15.7	+ 8 13 40.17	+ 81.18	+48 19 45.0	9.999197
Warschau[1]) Zentr. d. Stw.	121	+52 13 4.6	− 1 24 7.25	− 13.82	+52 1 50.3	9.999096
Warschau[2])	—	+52 13 10	− 1 24 4.8	− 13.81	+52 1 56	9.999088
Washington (Alte Stw.)	31	+38 53 38.9	+ 5 8 12.13	+ 50.63	+38 42 19.4	9.999428
Washington (Neue Stw.)	82	+38 55 14.0	+ 5 8 15.78	+ 50.64	+38 43 54.4	9.999431
Washington (Kath. Univ.)	—	+38 56 14.8	+ 5 8 0.0	+ 50.60	+38 44 55.1	9.999425
Wellington Transit Instr.[3])	127	−41 17 3.8	−11 39 4.27	−114.84	−41 5 34.3	9.999375
West Point N.Y. (N. Stw.)[4])	170	+41 23 22.1	+ 4 55 50.6	+ 48.60	+41 11 52.3	9.999375
Wien (Alte Sternw.)	167	+48 12 35.5	− 1 5 31.61	− 10.76	+48 1 3.9	9.999201
Wien (Josephstadt)[5])	214	+48 12 53.8	− 1 5 25.17	− 10.74	+48 1 22.2	9.999204
Wien (Neue Sternw.) Zentr.	240	+48 13 55.3	− 1 5 21.35	− 10.73	+48 2 23.8	9.999205
Wien (Ottakring)[6])	285	+48 12 46.7	− 1 5 10.97	− 10.71	+48 1 15.1	9.999209
Wien (Mil. Geogr. Inst.)	211	+48 12 40.5	− 1 5 26.24	− 10.75	+48 1 8.9	9.999203
Wien (Techn. Hochschule)	200	+48 11 58.3	− 1 5 29.76	− 10.76	+48 0 26.7	9.999204
Wilhelmshaven Mer.-Kr.	9	+53 31 52.1	− 0 32 35.15	− 5.35	+53 20 46.4	9.999057
Williams-Bay Wisc.[7])	334	+42 34 12.6	+ 5 54 13.24	+ 58.19	+42 22 39.6	9.999356
Williamstown Mass.	213	+42 42 49	+ 4 52 53.5	+ 48.12	+42 31 16	9.999344
Wilna Pass.-Instr.	122	+54 40 59.1	− 1 41 8.76	− 16.61	+54 30 2.1	9.999036
Windsor N. S. W.[8])	16	−33 36 30.8	−10 3 20.77	− 99.11	−33 25 50.2	9.999556
Wolfersdorf	279	+50 47 20.0	− 0 46 50.94	− 7.70	+50 35 58.0	9.999143
Zô-sè China	100	+31 5 48.0	− 8 4 44.82	− 79.63	+30 55 33.6	9.999619
Zürich Meridian-Kreis	468	+47 22 38.3	− 0 34 12.3	− 5.62	+47 11 4.8	9.999242

[1]) Universitäts-Sternwarte. — [2]) Dr. Jedrzejewicz; seit 1898, früher in Plonsk. — [3]) Dominion Observatory. — [4]) Seit 1883. Alte Sternwarte 9″ nördlich, 1ˢ.2 östlich. — [5]) von Oppolzers Sternwarte. — [6]) v. Kuffner. — [7]) Yerkes Observatory. — [8]) J. Tebbutt. Neue Sternwarte, 0″.4 südlich von der alten.

Normalzeiten der wichtigeren Länder

a) An den Meridian von Greenwich angeschlossen

Normalzeit = Mittl. Ortszeit des Meridians	Bezeichnung	Staaten
östl. Gr.		
11h 30m	—	Neu Seeland
10 0	Ostaustralische Z.	Victoria, Neu Süd-Wales, Queensland, Tasmanien
9 30	—	Süd-Australien
9 0	—	Japan, Korea
8 0	Ostchinesische Küsten-Z.	Ostküste von China, West-Australien
7 0	Südchinesische Küsten-Z.	Südküste von China, Franz. Indochina
5 30	—	Indien, Ceylon
2 30	—	Deutsch Ostafrika
2 0	Osteuropäische Z.	Finnland, Estland, Lettland, Europ. Rußland, Bulgarien, Rumänien, Griechenland, Türkei, Palästina, Ägypten, Süd-Afrika
1 0	Mitteleuropäische Z. (M. E. Z.)	Dänemark, Deutschland, Italien, Luxemburg, Norwegen, Österreich, Ungarn, Schweden, Schweiz, Jugoslawien, Polen, Deutsch Südwest-Afrika
0h 0m	Westeuropäische Z. (Greenwich Z.)	Belgien, Frankreich, Großbritannien und Irland, Portugal, Spanien, Gibraltar, Algerien
westl. Gr.		
3h 0m	—	Ost-Brasilien
4 0	Atlantic St. Time	Mittel-Brasilien, Argentinien, Uruguay, Canada (Küste)
4 30	—	Venezuela
5 0	Eastern St. Time	Canada (Quebec, Ontario bis 82° 30′ westl.), Vereinigte Staaten (Ost-Zone), Chile, Panama, Peru, West-Brasilien
6 0	Central St. Time	Zentral-Zone von Canada und Vereinigte Staaten, Ostmexico
7 0	Mountain St. Time	Gebirgszone von Canada und Vereinigte Staaten, Westmexico
8 0	Pacific St. Time	Vereinigte Staaten (Pacifische Küste), Britisch Kolumbien
10 30	—	Sandwich Inseln

b) Nicht an den Meridian von Greenwich angeschlossen

Staaten	Meridian	Längendifferenz gegen Greenwich
Columbien	Bogota	4h 56m 52s.4 W.
Ecuador	Quito	5 14 6.7 W.
Niederlande	Amsterdam	0 19 30.5 O.

Besondere Erläuterungen zu den Angaben und zum Gebrauch des Jahrbuchs.

Das Jahrbuch gibt die Örter der *Wandelsterne* in geozentrischen und in heliozentrischen Koordinaten. Die Zeitpunkte, für die sie gelten, sind, wenn nicht ausdrücklich eine andere Zeit angegeben wird, in Welt-Zeit ausgedrückt; **Welt=Zeit ist identisch mit Bürgerlicher Zeit Greenwich.** Der bürgerliche Tag beginnt um Mitternacht, die Weltzeit-Stunden sind von 0^h bis 24^h durchgezählt. Die Beziehung zu der bis zum Jahrgang 1924 (einschließlich) im Jahrbuch verwendeten Mittleren Zeit Greenwich besteht darin, daß der astronomische mittlere Tag erst am Mittag des bürgerlichen Tages, also 12^h nach dessen Anfang beginnt. Somit ist 1925 Jan. 1, 0^h Weltzeit gleich 1924 Dez. 31, 12^h Mittlere Zeit Greenwich.

Die Örter der *Fixsterne* sind einmal als »Mittlere Sternörter« auf das mittlere Äquinoktium des Jahresanfangs bezogen, und dann in Ephemeridenform als scheinbare, auf das instantane wahre Äquinoktium bezogen, gegeben.

Zur Erläuterung ist im einzelnen folgendes zu bemerken:

Sonnenephemeride (S. 2—38).

Der erste Teil der Sonnenephemeride (S. 2—19) gibt auf den linken Seiten für 0^h Welt Zeit (= Mitternacht Greenwich) an jedem Tage:

1) Die Zeitgleichung = Mittlere Zeit *minus* Wahre Zeit.

2) Die geozentrischen, äquatorialen Koordinaten α, δ des scheinbaren Sonnenorts, bezogen auf das jedesmalige wahre Äquinoktium, zugleich mit der ersten Differenzreihe. Diese Angaben sind direkt mit den Beobachtungen vergleichbar. Die Nutationsglieder kurzer Periode sind, wie im Vorwort erwähnt, in den Koordinaten nicht enthalten.

3) Die halbe Durchgangsdauer (in Sternzeit) der Sonnenscheibe durch den Meridian.

4) Den geozentrischen Halbmesser H der Sonnenscheibe, d. i. der Winkel, unter dem der Sonnenhalbmesser vom Erdmittelpunkt aus erscheint.

Die rechten Seiten geben:

1) Die Julianische Zeit, d. i. die Anzahl der seit Beginn der Julianischen Periode verflossenen mittleren Sonnentage.

2) Die Sternzeit für 0^h Welt-Zeit.

Um für einen anderen Erdort der westlichen Längendifferenz $\Delta\lambda$ (in Stunden) gegen Greenwich die Sternzeit in seiner Mitternacht zu erhalten, ist zu diesen Angaben zuzulegen: $9^s.8565\,\Delta\lambda$. Diese Werte finden sich unter der Überschrift: »Korr. der Sternzeit« im Verzeichnis der Sternwarten.

3) Die geozentrischen ekliptikalen Koordinaten λ, β der Sonne, bezogen auf das mittlere Äquinoktium des Jahresanfangs, sowie log R, den Logarithmus der Entfernung R der Erde von der Sonne. Diese Angaben finden bei Bahnberechnungen u. dergl. Verwendung.

4) Die bürgerlichen Ortszeiten des Aufgangs und Untergangs der Sonne für einen Ort des Nullmeridians in $+50^0$ Breite; sie sind mit der Horizontalrefraktion $34'$ berechnet und gelten für den oberen Rand der Sonne. Um daraus für einen beliebigen anderen Ort zwischen $+30^0$ und $+60^0$ geographischer Breite die entsprechenden Angaben zu erhalten, ist die Tabelle S. 340*, 341* zu benutzen.

Auf S. 20—37 folgen, bezogen auf das mittlere Äquinoktium des Jahresanfangs, die rechtwinkligen geozentrischen äquatorialen Sonnenkoordinaten für 0^h und 12^h Welt-Zeit mit ihren ersten Differenzen. Am Fuß der Seite 37 finden sich die Zeiten für die Anfänge der Jahreszeiten und für das Peri- und Apogäum der Sonne.

Die Seite 38 enthält die Aberration, Parallaxe, mittlere Länge $L_\odot$ und mittlere Anomalie $M_\odot$ der Sonne im Intervall von je 10 Tagen.

Mondephemeride (S. 39—57).

Seite 39 enthält die Zeitangaben für die Phasen und das Peri- und Apogäum des Mondes.

Die Mondephemeride (S. 40—57) gibt auf den linken Seiten für 0^h Welt-Zeit (= Mitternacht Greenwich):

1) Die scheinbare Rektaszension und Deklination des Mondmittelpunktes mit den ersten Differenzen.

2) Die Äquatorial-Horizontalparallaxe $p_☾$ des Mondes.

3) Den geozentrischen Mondhalbmesser $r_☾$, d. i. der Winkel, unter dem der Mondhalbmesser vom Erdmittelpunkt aus erscheint.

4) Die Länge und Breite des Mondes, abgekürzt auf $0^0.001$.

Die rechten Seiten enthalten:

1) Für den oberen Durchgang des Mondes durch den Meridian von Greenwich die genäherten Angaben für die Rektaszension, Deklination und Parallaxe des Mondmittelpunktes, sowie die bürgerliche Greenwicher Zeit dieses Durchgangs, nebst den Änderungen für 1^h westlicher Längendifferenz.

2) Die bürgerlichen Ortszeiten des Aufgangs und Untergangs des Mondes für einen Ort des Nullmeridians in $+50^0$ Breite nebst Änderung für 1^h westlicher Längendifferenz; sie sind mit der Horizontalrefraktion

34′ berechnet und gelten für den oberen Rand des Mondes. Um daraus für einen beliebigen anderen Ort zwischen $+30^0$ und $+60^0$ geographischer Breite die entsprechenden Angaben zu erhalten, ist die Tabelle S. 342*, 343* zu benutzen.

Ephemeriden der Großen Planeten
(S. 58—112).

Die geozentrischen Örter der Planeten sind für Merkur, Venus, Mars, Jupiter, Saturn von Tag zu Tag, für Uranus und Neptun von 4 zu 4 Tagen für 0^h Welt-Zeit (= Mitternacht Greenwich) mit ihren ersten Differenzen gegeben, und zwar in scheinbaren, auf das momentane wahre Äquinoktium bezogenen Koordinaten. Die letzte Spalte gibt die bürgerliche Zeit (Greenwich) der oberen Kulmination in Greenwich.

Für die Reduktion und die Vergleichung der Planetenbeobachtungen mit der Ephemeride ist die Kenntnis der scheinbaren Halbmesser erforderlich. Man kann für dieselben in der Einheit der Entfernung annehmen:

für	Merkur	Halbmesser	. . . . .	3″34		
»	Venus	»	. . . . .	8.78		
»	Mars	»	. . . . .	4.68		
»	Jupiter	»	(Äquatorial)	99.8,	(Polar)	92″6
»	Saturn	»	(Äquatorial)	81.4,	(Polar)	73.4
»	Uranus	»	. . . . .	34.7		
»	Neptun	»	. . . . .	45		

Die heliozentrischen Ephemeriden der Planeten (S. 109—112) geben den Log. des Radiusvector, die Länge, deren Reduktion auf die Bahn und die Breite bezogen auf das mittlere Äquinoktium 1925.0.

☊ und i stellen die Bahnlage für die Epoche 1925.0 und das Normaläquinoktium 1925.0 dar.

Die Genauigkeit und Ausführlichkeit dieser heliozentrischen Angaben sind ihrem Hauptzweck, zur Berechnung der speziellen Störungen zu dienen, angepaßt.

Die beigefügten Werte der Planetenmassen sind die den Tafeln von Newcomb und von Hill zugrunde liegenden. Für die Erde ist noch besonders zu erwähnen, daß die Masse von »Erde + Mond« gegeben ist, Radiusvector und heliozentrische Länge sich auf den Schwerpunkt des Systems »Erde + Mond« beziehen.

Mittlere Örter von 925 Fixsternen (S. 2*—25*).

Die mittleren Örter der 925 Fixsterne sind aus den Daten der Veröffentlichung Nr. 33 des *Königlichen Astronomischen Rechen-Instituts* mit den daselbst angegebenen Hilfsgrößen für Präzession und Eigenbewegung abgeleitet worden. Nur die mittleren Örter der 20 Polsterne sind durch numerische Integration berechnet.

Ein * vor dem Namen weist auf eine Anmerkung am Fuß der Seite hin.

Unter Gr. stehen die visuellen Größen, welche aus der »Revised Harvard Photometry« in »Harvard Annals, vol. 50« entnommen sind, sofern nichts Anderes bemerkt ist. Wo für einen Stern zwei Größen gegeben sind, beziehen sich diese auf die Komponenten eines Doppelsterns. Die in den Anmerkungen gegebenen Größen für Doppelsternkomponenten und für die Extrema der Veränderlichen sind dem »Henry Draper Catalogue« entnommen

Die Spektren sind aus dem Draper Katalog übernommen worden. Zusammengesetzte Spektren sind durch + gekennzeichnet. In anderen Fällen beziehen sich, wo 2 Spektren gegeben sind, diese auf die Komponenten eines Doppelsterns.

Scheinbare Örter von 579 Fixsternen (S. 26*—235*).

Die scheinbaren Rektaszensionen und Deklinationen der Fixsterne sind für den Moment der oberen Kulmination im Meridian von Greenwich gegeben.

Die Ephemeriden der 555 Sterne mit Deklinationen kleiner als 80°, deren scheinbare Örter von 10 zu 10 Sterntagen gegeben sind, enthalten die kurzperiodischen Mondglieder der Nutation nicht. Doch sind auf S. 165* für die Sterne mit Deklinationen über 60° die Größen a, b, a', b' gegeben, mit deren Hilfe diese Nutationsglieder leicht berechnet werden können. Das Datum des Tages, an welchem zwei Kulminationen stattfinden, ist in kleinem Druck vor der Rektaszensionsspalte angeführt.

Die jährliche Parallaxe ist bei folgenden Sternen berücksichtigt, bei denen sie 0″.20 übersteigt und hinreichend verbürgt erscheint, nämlich:

Nr. 59	τ Ceti	mit	0″.31		Nr. 538	α Centauri	mit	0″.75
Nr. 127	ε Eridani	»	0.32		Nr. 745	α Aquilae	»	0.23
Nr. 257	α Can. maj.	»	0.38		Nr. 793	61 Cygni	»	0.30
Nr. 291	α Can. min.	»	0.33					

Von den im B. J. nicht mit Ephemeriden versehenen Sternen des N. F. K. besitzt noch Nr. 825, ε Indi, eine Parallaxe von 0″.25.

Die Ephemeriden der auf S. 2*—24* eingeklammerten Sterne findet man in »Posiciones medias y aparentes de 350 estrellas«. (Suplemento al Almanaque Nautico.)

Es folgen die scheinbaren Örter von 20 Polsternen für jede obere Kulmination. Sie enthalten die kurzperiodischen Mondglieder nicht, jedoch sind deren Werte in besonderen Spalten gegeben.

Am Fuße der Ephemeriden ist der mittlere Ort eines jeden Sternes für den Anfang des Jahres und die Werte von sec δ und tg δ angegeben, welche bei der Reduktion der Meridianbeobachtungen nach der hierfür am zweckmäßigsten erscheinenden Besselschen Formel gebraucht werden.

Auf den Seiten 226*—235* sind die scheinbaren, rechtwinkligen Koordinaten von vier polnahen Sternen gegeben. Sie beziehen sich auf ein Koordinatensystem, dessen positive x-Achse nach dem Frühlingspunkt und dessen positive y-Achse nach dem Punkt $\alpha = 6^h$, $\delta = 0^0$ gerichtet ist. Der Zusammenhang zwischen x, y und α, δ ist gegeben durch die Beziehungen: $x = \cos\delta\cos\alpha$, $y = \cos\delta\sin\alpha$. Die Angaben gelten für 12^h Sternzeit Greenwich und enthalten die kurzperiodischen Mondglieder der Nutation nicht, deren Werte jedoch in der letzten Spalte einer jeden Seite unter der Überschrift »Kurzperiod. Mondgl.« gegeben sind.

Als Quellen für die Koordinaten und Eigenbewegungen dieser vier Sterne sind benutzt worden:

für BD + 89° 1: L. Courvoisier: Beobachtungen des Sterns BD 89° 1 am großen Meridiankreis der Berliner Sternwarte. Astron. Nachr. Bd. **200,** 243,

für BD + 89° 3: L. Courvoisier: Ephemeriden der Polsterne BD 89°3 und BD 89°37 für 1923. Astron. Nachr. Bd. **217,** 319,

für BD + 89°37: L. Courvoisier: Neue Position und Eigenbewegung des Polsterns BD +89° 37. Astron. Nachr. Bd. **230,** 71,

für CPD − 89°38: Cape Annals Bd. XI, II, 244 für den Ort und eine briefliche Mitteilung für die Eigenbewegung.

Mit den an diesen Stellen gegebenen Werten findet man folgende mittleren Örter für 1929.0:

Name	Gr.	x	Jährliche Veränd. 1929.5	Jährliche Eigenbw.	y	Jährliche Veränd. 1929.5	Jährliche Eigenbw.
	M	″	″	″	″	″	″
BD + 89° 1	10.56	− 58.95	−20.086	−0.024	+ 79.34	−0.024	−0.008
BD + 89° 3	9.06	+142.46	−20.240	−0.003	+863.55	+0.024	−0.006
BD + 89° 37	10.06	−841.82	−19.979	−0.011	−343.05	−0.175	+0.015
CPD − 89° 38	9.5	−249.32	+20.087	−0.027	−309.23	−0.084	−0.031

Reduktionsgrößen (S. 236*—286*).

Auf die scheinbaren Örter der Sterne folgt S. 236* eine Zusammenstellung der Werte, mit welchen die Reduktionsgrößen der darauf folgenden Tafeln berechnet sind, und der Formeln für die Reduktion auf den scheinbaren Ort.

Die Größen zur »Reduktion auf den scheinbaren Ort« sind in ihrer *ersten* Form: A, B, C, D, E; A', B' gegeben für 12^h Sternzeit des Meridians von Greenwich:

1) Auf S. 237* im Intervall von 10 Sterntagen.

Diese Tafel soll zur Berechnung von Sternephemeriden für die Epochen der Meridiandurchgänge dienen. Wegen ihrer logarithmischen Form und des großen Intervalls ist die Tafel zur Interpolation nicht geeignet. Man wird deshalb zweckmäßig die Interpolation erst nach der Summierung der einzelnen unmittelbar für die Epochen der Tafel berechneten Glieder vornehmen.

2) Auf S. 256*—264* für jeden Sterntag. Hier sind die numerischen Werte von A, B, C und D mit ihren Differenzen gegeben und die kurzperiodischen Mondglieder A' und B' mit angeführt.

Beiden Tafeln ist in einer Spalte die dem festen Sternzeitmoment jedesmal entsprechende Welt-Zeit (bürgerliche Zeit Greenwich) vorangestellt; man wird hiernach auf jeden beliebigen Zeitpunkt, gegeben durch Datum, Sternzeit und Längendifferenz gegen Greenwich, übergehen können. Eine weitere Spalte gibt die seit Beginn des annus fictus verflossene Zeit in Bruchteilen des tropischen Jahres.

Die Reduktionsgrößen der *zweiten* Form: f, $\log g$, G, $\log h$, H, $\log i$ und i, sowie f', g' und G' sind S. 238*—255* von Tag zu Tag für 0^h Welt-Zeit (= Mitternacht Greenwich) gegeben.

Auch hier findet sich eine Spalte, t überschrieben, welche die seit Beginn des annus fictus verflossene Zeit in Bruchteilen des tropischen Jahres gibt. Ferner ist die Sternzeit Greenwich für 0^h Welt-Zeit gegeben.

Die Seiten mit ungerader Seitenzahl enthalten außer den schon erwähnten f', g', G' noch folgende Größen:

a) ψ = Allgemeine Präzession seit Jahresanfang.
b) $\Delta\psi$ = Langperiodische Glieder der Nutation in Länge.
c) $\Delta\psi'$ = Kurzperiodische Glieder der Nutation in Länge.
d) ε = Wahre Schiefe der Ekliptik.
e) $\Delta\varepsilon$ = Langperiodische Glieder der Nutation in Schiefe.
f) $\Delta\varepsilon'$ = Kurzperiodische Glieder der Nutation in Schiefe.

Die mittlere Schiefe der Epoche erhält man durch Subtraktion der Gesamtnutation ($\Delta\varepsilon + \Delta\varepsilon'$) von der wahren Schiefe.

Auf S. 265* findet sich eine Tafel der Hilfsgrößen zur Berechnung der Präzession von verschiedenen mittleren Äquinoktien bis 1929.0.

S. 266* enthält eine Tafel der Hilfsgrößen zur Übertragung der Polsternörter von verschiedenen mittleren Äquinoktien auf das mittlere Äquinoktium 1929.0.

Die Tafeln auf Seite 268*—279* enthalten, in Einheiten der vierten Dezimale, die Größen p, q, r, welche die Bedeutung haben:

$$p = [-g\cos(G+\alpha)\sin\delta - h\cos(H+\alpha)]\cdot \operatorname{arc} 1'$$

$$q = [-g\sin(G+\alpha) - h\sin(H+\alpha)\sin\delta]\cdot \operatorname{arc} 1'$$

$$r = [-h\cos(H+\alpha)\cos\delta + i\sin\delta]\cdot \operatorname{arc} 1'$$

Sie dienen dazu, bei Anschlußbeobachtungen die gemessenen scheinbaren Rektaszensions- und Deklinationsdifferenzen in mittlere, für den Jahresanfang geltende zu verwandeln. Es ist:

Red. der Rektaszensionsdiff. a. d. Jahresanf. $= p\cdot\Delta\alpha^m\cdot\sec\delta + q\cdot\Delta\delta'\cdot\frac{1}{15}\sec^2\delta$,

» » Deklinationsdiff. » » » $= -q\cdot 15\cdot\Delta\alpha^m + r\Delta\delta'$,

worin $\Delta\alpha^m$ die Rektaszensionsdifferenz in Zeitminuten, $\Delta\delta'$ die Deklinationsdifferenz in Bogenminuten bezeichnet. Die Reduktion der gemessenen Rektaszensionsdifferenz ergibt sich in Zeitsekunden die Reduktion der gemessenen Deklinationsdifferenz in Bogensekunden.

Ein ausführliches Beispiel für die Benutzung dieser Tafeln ist im Jahrgang 1927, S. 472 enthalten.

Die Seite 280* enthält eine Tafel zur Übertragung von Rektaszensions- und Deklinationsdifferenzen vom mittleren Äquinoktium 1929.0 auf das Normaläquinoktium 1925.0. Man findet die auf das Normaläquinoktium 1925.0 bezogene Koordinatendifferenz, indem man an der auf das mittlere Äquinoktium 1929.0 bezogenen Rektaszensionsdifferenz die differentielle Präzession Δp_α^s und an der Deklinationsdifferenz die differentielle Präzession $\Delta p_\delta''$ anbringt:

$$\Delta p_\alpha^s = a_1 \operatorname{tg}\delta\cdot\Delta\alpha^m + a_2\frac{1}{15}\sec^2\delta\cdot\Delta\delta',$$

$$\Delta p_\delta'' = d_1\cdot\Delta\alpha^m.$$

Die Koeffizienten a_1, a_2 und d_1 sind in der Tafel auf S. 280* enthalten und haben die Bedeutung

$$a_1 = 60\,(n)\ \operatorname{arc} 1''\ \cos\alpha$$

$$a_2 = 60\,(n)\ \operatorname{arc} 1''\ \sin\alpha$$

$$d_1 = -900\,(n)\ \operatorname{arc} 1''\ \sin\alpha.$$

$\Delta\alpha^m$ und $\Delta\delta'$ ist die auf das mittlere Äquinoktium 1929.0 bezogene Rektaszensions- und Deklinationsdifferenz in Zeit- bez. Bogenminuten. Nach den angegebenen Formeln findet man die differentielle Präzession für Rektaszension in Zeitsekunden, diejenige für Deklination in Bogensekunden.

Die auf den Seiten 281*—282* gegebenen Größen f, log g und G dienen zur Übertragung der Örter von dem *mittleren* Normaläquinoktium 1925.0 auf das jedesmalige *wahre* Äquinoktium. Die Berücksichtigung des Einflusses der Variatio saecularis bei dieser Übertragung ist durch die Tafel auf S. 283* gegeben.

Eine Tafel zur Übertragung von Sternörtern vom mittleren Äquinoktium 1929.0 auf das Normaläquinoktium 1925.0 befindet sich auf den Seiten 284*—286*.

Die hier tabulierten Größen sind gerechnet nach den Formeln:

$$A = (m) + \frac{\nu^2}{4} \sin 2a$$

$$A_1 = \nu \sin a$$

$$A_2 = \frac{\nu^2}{2} \sin 2a$$

$$D = \nu \cos a$$

$$D_1 = -\frac{\nu^2}{2} \sin^2 a,$$

wobei $\nu = \sin(n)$, $a = \alpha_{1929.0} + 90^0 - (N)$. Betreffs der Größen (m), (n) und $90^0 - (N)$ vgl. S. 266*.

Sonnenfinsternisse (S. 288*—292*).

Die bei den Sonnenfinsternissen gegebenen Besselschen Elemente dienen in der folgenden Weise zur Vorausberechnung der Phasenzeiten und der Positionswinkel der Kontakte:

Mit einer Ausgangszeit T (siehe weiter unten) entnimmt man der Elemententabelle die Werte:

x, y, log sin d, log cos d, μ, l ($l^{(a)}$ für äußere, $l^{(i)}$ für innere Berührung), log tang f ($f^{(a)}$ für äußere, $f^{(i)}$ für innere Berührung), x', und y'.

Mit ihnen rechnet man das folgende Formelsystem durch:

$$(1) \quad \left\{ \begin{aligned} \xi &= c \cos \varphi \sin(\mu - \lambda) \\ \eta &= s \sin \varphi \cos d - c \cos \varphi \sin d \cos(\mu - \lambda) \\ \zeta &= s \sin \varphi \sin d + c \cos \varphi \cos d \cos(\mu - \lambda) \\ \xi' &= [7.6398 - 10]\, c \cos \varphi \cos(\mu - \lambda) \\ \eta' &= [7.6398 - 10]\, \xi \sin d, \end{aligned} \right.$$

worin φ die geographische Breite, λ die westliche Länge (von Greenwich) des Beobachtungsortes bezeichnen, s und c aus der Tafel auf S. 354* zu entnehmen sind.

Alsdann:

$$(2) \quad \left\{ \begin{aligned} m \sin M &= x - \xi \\ m \cos M &= y - \eta \end{aligned} \right\} m > 0 \qquad \left. \begin{aligned} n \sin N &= x' - \xi' \\ n \cos N &= y' - \eta' \end{aligned} \right\} n > 0$$

Nun berechnet man aus:

(3) $L = l - \zeta \operatorname{tang} f$

$L^{(a)}$ mit $l^{(a)}$ und $f^{(a)}$, $L^{(i)}$ mit $l^{(i)}$ und $f^{(i)}$; dann aus:

(4) $\sin \psi = \frac{m \sin (M - N)}{L}$ [1])

mit $L^{(a)}$ und $L^{(i)}$ je zwei Werte $\psi^{(a_1)}$, $\psi^{(a_2)}$ und $\psi^{(i_1)}$, $\psi^{(i_2)}$, von denen der eine zum Eintritt der Erde in den Halb- oder Kernschatten-Kegel, der andere zu ihrem Austritt aus ihm gehört. Diesen vier Werten $\psi^{(a_1)}$, $\psi^{(a_2)}$ und $\psi^{(i_1)}$, $\psi^{(i_2)}$ entsprechen vier Werte $\tau^{(a_1)}$, $\tau^{(a_2)}$ und $\tau^{(i_1)}$, $\tau^{(i_2)}$ (in Zeitminuten) nach

(5) $\tau = -\frac{m \cos (M - N)}{n} + \frac{L \cos \psi}{n}$,

um welche die Ausgangszeit T zu verbessern ist, um die Zeit der gesuchten Phase zu erhalten. Ist T die gesuchte Phasenzeit, so wird $\tau = 0$ werden. Man muß daher das Formelsystem (1) bis (5) mit steigenden Näherungen solange durchrechnen, bis dieser Fall eintritt, d. h. bis das Formelsystem sich schließt. Zu diesem Zweck beginnt man mit einem Näherungswert T_1, für den man, wenn kein besserer bekannt sein sollte, eine beliebige Zeit nahe der Mitte der Finsternis nehmen mag, und rechnet die erste genäherte Korrektion τ_1; dann wiederholt man die Rechnung mit $T_2 = T_1 + \tau_1$, dann mit $T_3 = T_2 + \tau_2 = T_1 + \tau_1 + \tau_2$ u. s. f. bis $\tau_n = 0$ sich ergibt. T_n ist dann die gesuchte Welt-Zeit des Kontaktes, die durch Hinzufügung der Längendifferenz in mittlere Ortszeit zu verwandeln ist. Die Rechnung ist für jede Berührung gesondert durchzuführen.

Die Positionswinkel der einzelnen Phasen, in üblicher Weise vom Punkt größter Deklination gezählt, folgen aus den Werten der letzten Näherung (Größen mit dem Index n) nach

$$P = N + \psi.$$

Will man den Winkelabstand Q vom Punkte der größten Höhe haben, so hat man von P noch den parallaktischen Winkel γ abzuziehen, der aus

$$\left.\begin{array}{l} p \sin \gamma = \xi \\ p \cos \gamma = \eta \end{array}\right\} p > 0$$

folgt, also $Q = P - \gamma.$

Um die Zeit der größten Phase, T_{max}, zu erhalten, hat man die beiden Formelsysteme (1) und (2) mit einem Näherungswerte T_1 durchzurechnen,

[1]) Wird der Winkel ψ bei der ersten Näherungsrechnung imaginär, so rechne man τ unter der Annahme $\psi = 90^0$ aus $\tau = -\frac{m \cos (M - N)}{n}$; bleibt ψ auch in der weiteren Rechnung imaginär, so deutet dies an, daß an dem betreffenden Orte keine Sonnenfinsternis stattfindet.

daraus $\overline{T}_2 = \overline{T}_1 - \frac{m \cos (M - N)}{n}$ zu entnehmen und die Rechnung solange fortzusetzen, bis die Korrektion der Ausgangszeit o wird. Als Näherungswert $\overline{T}_1$ wählt man zweckmäßig das Mittel der beiden Werte von T_2 für die Berührungszeiten.

Die Größe der Verfinsterung, i, in Teilen des Sonnendurchmessers ausgedrückt, ergibt sich dann aus:

$$i = \frac{L^{(a)} - m}{2\,L^{(a)} - 0.5450},$$

worin $L^{(a)}$ und m die zur Zeit $T_{\max}$ gehörigen Werte bedeuten.

Sternbedeckungen (S. 293*—296*)

Auf den Seiten 293*—294* ist ein Verzeichnis von Sternen mit Angabe ihrer genäherten Örter enthalten, für welche im Jahre 1929 in Mitteleuropa Bedeckungen durch den Mond beobachtet werden können. Die Welt-Zeit der Konjunktion in Rektaszension von Mond und Stern ist auf den Seiten 294*—296* gegeben. Genauere Angaben zur Berechnung der Sternbedeckungen findet man in der American Ephemeris.

Mondbewegung und Lage des Mondäquators gegen den Erdäquator (S. 297*).

Auf S. 297* finden sich:

- ☊, Aufsteigender Knoten der Mondbahn auf der Ekliptik
- $L_☾$, Mittlere Länge des Mondes
- $M_☾$, Mittlere Anomalie des Mondes
- i, Neigung des Mondäquators gegen den Erdäquator
- ☊′, Aufsteigender Knoten des Mondäquators auf dem Erdäquator
- Δ, Stück des Mondäquators zwischen Ekliptik und Erdäquator

☋, der aufsteigende Knoten des Mondäquators auf der Ekliptik, ist gleich dem absteigenden Knoten der Mondbahn, also

$$☋ = ☊ \pm 180^0.$$

Vom Jahrgang 1926 ab sind die Brownschen Mondtafeln verwendet. Die Größen i, Δ und ☊′ berechnen sich aus:

$$\sin \tfrac{1}{2} (\Delta + ☊') \cos \tfrac{1}{2} i = \cos \tfrac{1}{2} (\varepsilon - J) \sin \tfrac{1}{2} ☋$$

$$\cos \tfrac{1}{2} (\Delta + ☊') \cos \tfrac{1}{2} i = \cos \tfrac{1}{2} (\varepsilon + J) \cos \tfrac{1}{2} ☋$$

$$\sin \tfrac{1}{2} (\Delta - ☊') \sin \tfrac{1}{2} i = \sin \tfrac{1}{2} (\varepsilon - J) \sin \tfrac{1}{2} ☋$$

$$\cos \tfrac{1}{2} (\Delta - ☊') \sin \tfrac{1}{2} i = \sin \tfrac{1}{2} (\varepsilon + J) \cos \tfrac{1}{2} ☋;$$

dabei ist J, die Neigung des Mondäquators gegen die Ekliptik, nach F. Hayn (Astr. Nachr. Bd. 199, S. 263) zu $J = 1^0\,32'\,20''$ angenommen worden. Die Zahlen geben die Lage des mittleren Mondäquators (ohne physische Libration).

Die auf S. 297* gemachten Angaben über die Elemente der Mondbahn und des Mondäquators werden, teilweise in Verbindung mit den Größen $L_\odot$ und $M_\odot$ auf S. 38, zu verschiedenen Zwecken verwendet:

1) Als Argumente für die Berechnung der Reduktionsgrößen A, B, C, D, E, A', B'.

2) Bei Bestimmung der selenographischen Koordinaten von Punkten der Mondoberfläche (siehe darüber den folgenden Abschnitt).

3) Bei Berechnung der *optischen* und *physischen* Libration des Mondes.

a) Für die Berechnung der *optischen* Libration des Mondes sind alle nötigen Angaben in den Erläuterungen zu den Hilfstafeln unter Nr. 7 (S. 382*) gemacht.

b) Die Beträge der *physischen* Mondlibration in selenographischer Länge, der Neigung des Mondäquators und seinem aufsteigenden Knoten auf der Ekliptik τ, ϱ, σ haben die Werte:

$$\tau = -\;13''\sin M_☾ + 65''\sin M_\odot + 26''\sin 2\,(L_☾ - M_☾ - \Omega)$$

$$\varrho = -106''\cos M_☾ + 34''\cos(2\,L_☾ - M_☾ - 2\,\Omega) - 11''\cos 2\,(L_☾ - \Omega)$$

$$\sigma\sin J = -108''\sin M_☾ + 34''\sin(2\,L_☾ - M_☾ - 2\,\Omega) - 11''\sin 2\,(L_☾ - \Omega)$$

Diese Zahlenangaben beruhen auf der Annahme $f = 0.73$, worüber F. Hayn (Astr. Nachr. Bd. 199, S. 264) einzusehen ist.

Ephemeride für den Mondkrater Mösting A.

(S. 298*—302*).

Die Ephemeride des Mondkraters Mösting A dient zwei verschiedenen Zwecken: erstens zur genauen Bestimmung von Mondörtern am Himmel durch Beobachtung des Kraters, zweitens zur Bestimmung der selenographischen Koordinaten weiterer Punkte der Mondoberfläche durch deren mikrometrischen Anschluß an Mösting A.

Sie gilt für 0^h Welt-Zeit (= Mitternacht Greenwich) und enthält für die Tage, an welchen Mösting A innerhalb der Beleuchtungsgrenze liegt, die Unterschiede $\alpha_☾ - \alpha_k$ in Rektaszension und $\delta_☾ - \delta_k$ in Deklination zwischen der Mondmitte und dem Krater, vom Erdmittelpunkt aus gesehen, sowie den Logarithmus des Sinus der Äquatorial-Horizontalparallaxe p_k des Kraters, welche von der des Mondes $p_☾$ zu unterscheiden ist, mit den zugehörigen Differenzen.

Zur Anwendung der Ephemeride auf Beobachtungen des Kraters interpoliere man $\alpha_{☾} - \alpha_k$, $\delta_{☾} - \delta_k$ und $\log \sin p_k$ mit der Beobachtungszeit. Fügt man alsdann $\alpha_{☾} - \alpha_k$ und $\delta_{☾} - \delta_k$ zum geozentrischen Ort des Kraters (die Parallaxe wird mit p_k und δ_k, der Deklination des Kraters, berechnet), so hat man die geozentrische Rektaszension und Deklination des Mondes für die Beobachtungszeit.

Hat man einen Punkt der Mondoberfläche mikrometrisch an Mösting A angeschlossen, so bestimme man zunächst die topozentrischen, d. h. mit Parallaxe behafteten Koordinatendifferenzen $\alpha'_{☾} - \alpha'_k$ und $\delta'_{☾} - \delta'_k$ zwischen Mondmittelpunkt und Mösting A aus folgenden Identitäten:

$$\alpha'_{☾} - \alpha'_k = \alpha_{☾} - \alpha_k + (\alpha'_{☾} - \alpha_{☾}) - (\alpha'_k - \alpha_k)$$
$$\delta'_{☾} - \delta'_k = \delta_{☾} - \delta_k + (\delta'_{☾} - \delta_{☾}) - (\delta'_k - \delta_k).$$

Verbindet man die so erhaltenen topozentrischen Abstände zwischen der Mondmitte und Mösting A mit den mikrometrischen Messungen zwischen Mösting A und einem zweiten Krater, so erhält man die topozentrische Lage des letzteren gegen die Mondmitte und kann hieraus mit Hilfe von $\alpha'_{☾}$ und $\delta'_{☾}$ und den Angaben auf Seite 297* die selenographische Länge und Breite des zweiten Kraters berechnen. Hierzu dienen die im folgenden angeführten Formeln.

Bezeichnet man mit α' und δ' die topozentrische AR. und Dekl. des an Mösting A angeschlossenen Kraters, so hat man:

$$s \sin \pi_m = (\alpha' - \alpha'_{☾}) \cos \tfrac{1}{2}(\delta' + \delta'_{☾})$$
$$s \cos \pi_m = \delta' - \delta'_{☾}$$
$$\pi = \pi_m - \tfrac{1}{2}(\alpha' - \alpha'_{☾}) \sin \tfrac{1}{2}(\delta' + \delta'_{☾})$$
$$\sin(K + s) = \sin s \operatorname{cosec} h'.$$

h' ist der Abstand des Kraters vom Mondschwerpunkt, gesehen vom Beobachtungsort aus, der aus h, dem vom Erdmittelpunkt aus gesehenen Abstand, durch Anbringen der Parallaxe gewonnen wird. Ist die Entfernung des Kraters vom Mondschwerpunkt gänzlich unbekannt, so möge für h der aus Sternbedeckungen folgende Wert des Mondhalbmessers 15′ 32″.59 (nach J. Peters, Astr. Nachr. Bd. 138, S. 147) eingesetzt werden.

$$\sin d = -\sin \delta'_{☾} \cos K + \cos \delta'_{☾} \sin K \cos \pi$$
$$\cos d \cos(a - \alpha'_{☾}) = -\cos \delta'_{☾} \cos K - \sin \delta'_{☾} \sin K \cos \pi$$
$$\cos d \sin(a - \alpha'_{☾}) = \sin K \sin \pi$$
$$\sin \beta = \sin d \cos i - \cos d \sin i \sin(a - ☊')$$
$$\cos \beta \sin \lambda' = \sin d \sin i + \cos d \cos i \sin(a - ☊')$$
$$\cos \beta \cos \lambda' = \cos d \cos(a - ☊')$$
$$\lambda = \lambda' - 180° - L_{☾} - (\Delta - ☋).$$

Die so erhaltenen Werte von λ und β beziehen sich auf den mittleren (vom Einfluß der physischen Libration freien) Mondäquator; die Transformation auf den wahren erfolgt durch die Korrektionen:

$$d\lambda = +13'' \sin M_{☾} - 65'' \sin M_{\odot} - 26'' \sin 2(L_{☾} - M_{☾} - \Omega)$$
$$+ \operatorname{tg}\beta\,[-106'' \cos(L_{☾} - M_{☾} - \Omega + \lambda) + 34'' \cos(L_{☾} - M_{☾} - \Omega - \lambda)$$
$$- 11'' \cos(L_{☾} - \Omega - \lambda)]$$
$$d\beta = +108'' \sin(L_{☾} - M_{☾} - \Omega + \lambda) + 34'' \sin(L_{☾} - M_{☾} - \Omega - \lambda)$$
$$- 11'' \sin(L_{☾} - \Omega - \lambda)$$

Bringt man diese Korrektionen $d\lambda$ und $d\beta$ an λ und β an, so erhält man die selenographischen Koordinaten des Kraters:

$$\lambda_{\circ} = \lambda + d\lambda, \qquad \beta_{\circ} = \beta + d\beta$$

Der Berechnung der Ephemeride des Kraters Mösting A liegen folgende von F. Hayn ermittelten Konstanten (Astr. Nachr. Bd. 199, S. 263) zugrunde:

$$\lambda_{\circ} = -5^{\circ}\ 10'\ 7'', \qquad \beta_{\circ} = -3^{\circ}\ 11'\ 2''$$
$$h = 15'\ 33''.4$$

Für die Reduktion auf den mittleren Mondäquator wurden die Werte angenommen:

$$d\lambda = -13'' \sin M_{☾} + 65'' \sin M_{\odot} + 26'' \sin 2(L_{☾} - M_{☾} - \Omega)$$
$$d\beta = -108'' \sin(L_{☾} - M_{☾} - \Omega + \lambda_{\circ}) - 34'' \sin(L_{☾} - M_{☾} - \Omega - \lambda_{\circ})$$
$$+ 11'' \sin(L_{☾} - \Omega - \lambda_{\circ}),$$

so daß die auf den mittleren Mondäquator bezogenen selenographischen Koordinaten des Kraters Mösting A sind:

$$\lambda = \lambda_{\circ} + d\lambda, \qquad \beta = \beta_{\circ} + d\beta.$$

Die Formeln zur Berechnung der Ephemeride siehe in den Erläuterungen zum Jahrbuch 1916.

Jupitertrabanten (S. 303*—304*).

Die Seiten 303* und 304* enthalten die Zeitangaben (in Welt-Zeit) für die Verfinsterungen der vier hellen Jupitertrabanten in dem Schattenkegel des Jupiter; Ein- und Austritte sind durch beigefügtes E. und A. unterschieden.

Saturnsring (S. 305*—308*, 319*).

Die Angaben für die scheinbare Größe des Saturn und für die Lage und Größe des Saturnsringes haben die folgende Bedeutung:

α Große Achse des Saturn.

β Kleine Achse des Saturn.

p_a Phase; positiv, wenn der Ostrand, negativ, wenn der Westrand verdunkelt ist.

a Große Achse der Ringellipse.

b Kleine Achse der Ringellipse; positiv, wenn die nördliche, negativ, wenn die südliche Fläche des Ringes sichtbar ist.

U' Heliozentrische Länge des Saturn, gezählt auf der Ringebene vom aufsteigenden Knoten des Ringes in der Ekliptik an.

B' Erhöhungswinkel der Sonne über der Ringebene vom Saturn aus gesehen; nördlich positiv, südlich negativ.

P' Winkel der kleinen Achse der Ringellipse mit dem durch den Saturnsmittelpunkt gehenden Längenkreise; östlich positiv, westlich negativ.

U Geozentrische Länge des Saturn, gezählt auf der Ringebene vom aufsteigenden Knoten des Ringes im Erdäquator an.

B Erhöhungswinkel der Erde über der Ringebene vom Saturn aus gesehen; nördlich positiv, südlich negativ.

P Winkel der kleinen Achse der Ringellipse mit dem durch den Saturnsmittelpunkt gehenden Stundenkreise; östlich positiv, westlich negativ.

N Aufsteigender Knoten der Ringebene im Erdäquator, gezählt vom Äquinoktium an.

J Neigung der Ringebene gegen den Erdäquator.

ω Entfernung der Ekliptik vom Erdäquator, gemessen auf der Ringebene.

Es liegen folgende Bestimmungen nach Struve zugrunde:

Durchmesser des Saturn in der Entfernung 9.53887

Äquatorial $17''.47$ Polar $15''.65$

Lage des Saturnsringes gegen die Ekliptik und das Äquinoktium von 1889.25

$$\Omega_1 = 167^\circ\ 57'.0 \quad \text{und} \quad i_1 = 28^\circ\ 5'.6;$$

Durchmesser des Ringes in der Entfernung 9.53887

$$2\,R = 39''.35$$

Saturnstrabanten (S. 309*—332*).

Die Berechnungen über die Saturnstrabanten sind mit den von H. Struve in:

I. Beobachtungen der Saturnstrabanten, 1. Abteilung, 1. Supplementheft zu den »*Observations de Poulkova*«;

II. *Publications de l'Observatoire Central Nicolas*, Série II, Vol. XI

abgeleiteten, in Astr. Nachr. Bd. 162, S. 325 u. ff. und von G. Struve in Veröff. Berlin-Babelsberg VI 1 weiter verbesserten Elementen durchgeführt. Für die Halbachsen der 6 inneren Trabanten sind die auf Seite 239 der zweiten Abhandlung mittels der Saturnsmasse $\mu = \frac{1}{3500}$ rechnerisch abgeleiteten Werte angenommen.

Die den Ephemeriden zugrunde liegenden Elemente sind:

MIMAS (II, Seite 195)

Epoche: 1889 April 0.0 Mittl. Zt. Grw.

$E_0 = 127^0\ 19'.0$

$n = 381^0.9945$

$\delta l = -44^0.243 \sin(116^0 46 + 5^0.075\,t)$
$\quad - 0^0.75 \sin 3\,(116^0.46 + 5^0.075\,t)$

$l_1 = E_0 + n t_d + \delta l$

$\Theta = 54^0.7 - 365^0.3\,t$

$\gamma = 1^0\ 36'.5$

$\Pi_1 = 107^0.2 + 365^0.3\,t$

$e = 0.0190$

$a = 26''.814$

ENCELADUS (II, Seite 183)

Epoche: 1889 April 0.0 Mittl. Zt. Grw.

$E_0 = 199^0\ 19'.8$

$n = 262^0.73199$

$\delta l = +11'.24 \sin(143^0 + 92^0 4\,t)$
$\quad + 20'.0 \sin(75^0 + 29^0.3\,t)$

$l_1 = E_0 + n t_d + \delta l$

$\Theta = 328^0 - 152^0.7\,t$

$\gamma = 1'.4$

$\Pi_1 = 308^0.38 + 123^0.43\,t$

$e = 0.0046$

$a = 34''.401$

TETHYS (II, Seite 195)

Epoche: 1889 April 0 0 Mittl. Zt. Grw.

$E_0 = 284^0\ 31'.0$

$n = 190^0.69795$

$\delta l = +118'.90 \sin(116^0.46 + 5^0.075\,t)$
$\quad + 2'.02 \sin 3\,(116^0.46 + 5^0.075\,t)$

$l_1 = E_0 + n t_d + \delta l$

$\Theta = 110^0.55 - 72^0.5\,t$

$\gamma = 1^0\ 4'.36$

$e = 0.0000$

$a = 42''.586$

DIONE (II, Seite 183)

Epoche: 1889 April 0.0 Mittl. Zt. Grw.

$E_0 = 253^0\ 51'.4$

$n = 131^0.534955$

$\delta l = -1'\,21 \sin(143^0 + 92^0 4\,t)$
$\quad - 2'.13 \sin(75^0 + 29.3\,t)$

$l_1 = E_0 + n t_d + \delta l$

$\Theta = 276^0 - 31^0.0\, t$
$\gamma = 4'.0$
$\Pi_1 = 165^0 + 31^0.0\, t$
$e = 0.0020$
$a = 54''.543$

RHEA (G. Struve, Berlin-Bbg. VI, 1, Seite 16)
Epoche: 1889 April 0.0 Mittl. Zt. Grw.

$E_0 = 358^0\ 23'.8$
$n = 79^0.690087$
$E - E_0 = + 4'.95 \sin (343^0.4 - 10^0.1\, t)$
$l = E_0 + n t_d + (E - E_0)$
$(\Omega - \Omega_1) \sin i_1 = 20'.74 \sin (343^0.36 - 10^0.10\, t) - 0'.38 + 1'.00 \sin (48^0.5 - 0^0.50\, t)$
$i - i_1 = 20'.74 \cos (343^0.36 - 10^0.10\, t) - 2'.79 + 1'.00 \cos (48^0.5 - 0^0.50\, t)$
$\Pi = 276^0.25 + 0^0.53\, t + 17^0.64 \sin [9^0.5\ (t - 1879.59)]$
$e = 0.00098 + 0.00030 \cos [9^0.5\ (t - 1879.59)]$
$a = 76''.170$
Ω_1 und i_1 bezeichnen die Lage des Saturnsringes.

TITAN (II, Seite 172)
Epoche: 1890 Jan. 0.0 Mittl. Zt. Grw.

$E_0 = 260^0\ 25'.1$
$n = 22^0.577009$
$E - E_0 = + 4'.05 \sin (47^0.8 - 0^0.51\, t)$
$l = E_0 + n t_d + (E - E_0)$
$\Omega = 167^0\ 51'.2 + 35'.84 \sin (47^0.8 - 0^0.506\, t) + 0'.837\, t$
$i = 27^0\ 28'.4 + 16'.88 \cos (47^0.8 - 0^0.506\, t)$
$\Pi = 276^0\ 15' + 31'.7\, t + 22'.0 (\sin 2g - \sin 2g_0)$
$e = 0.02886 + 0.000186\ (\cos 2g_0 - \cos 2g)$
$g = \Pi - \Omega - 4^0.5$
$g_0 = g$ für $t = 0$
$a = 176''.578$

HYPERION (II, Seite 290)
Epoche: 1890 Jan. 0.0 Mittl. Zt. Grw.

$E_0 = 304^0\ 53'$
$n = 16^0.919983$
$\delta l = 9^0.16 \sin (200^0.5 + 0^0.56206\, t_d)$
$l = E_0 + n t_d + \delta l$
Äquinoktium 1890.0. Epoche 1890.0 + t
$\Omega = 167^0\ 49'.7 + 42'.4 \sin (47^0.8 - 0^0.50\, t) + 78'.1 \sin (121^0.7 - 2^0.0\, t)$
$i = 27^0\ 20'.8 + 19'.6 \cos (47^0.8 - 0^0.50\, t) + 36'.2 \cos (121^0.7 - 2^0.0\, t)$

Epoche und Äquinoktium: 1888.890 + t

$$\Pi = 276^0.50 - 18^0.663\, t + 14^0.0 \sin(-0^0.84 + 19^0.191\, t) - 1^0.5 \sin(-1^0.68 + 38^0.382\, t)$$

$$e = 0.1043 + 0.0230 \cos(-0^0.84 + 19^0.191\, t) + \delta e$$

$$e\delta e = -0.00044 \cos(200^0.5 + 0^0.56206\, t_d)$$

$$a = 213''.92 + \delta a$$

$$\delta a = -0.00354\, a \cos(200^0.5 + 0^0.56206\, t_d)$$

JAPETUS (I, Seite 87; II, Seite 139)
Epoche: 1885 Sept. 1.0 Mittl. Zt. Grw.

$E_0 = 75^0\ 26'.4$

$n = 4^0.537997$

$l = E_0 + n\, t_d$

$\Omega = 142^0\ 12'.4 - 1'.48\, t$

$i = 18^0\ 28'.3 - 0'.54\, t$

$\Pi = 354^0\ 30' + 7'.9\, t$

$e = 0.02836 + 0.000015\, t$

$a = 514''.59$

Hierin bedeuten:

l_1, l = Mittlere Länge in der Bahn
n = Tropische mittlere tägliche Bewegung
δl = Libration
t_d = Anzahl der Tage seit der Anfangsepoche
t = Anzahl der Jahre seit der Anfangsepoche
Θ = Knoten auf dem Saturnsäquator
Ω = Knoten auf der Ekliptik
γ = Neigung der Trabantenbahn gegen den Saturnsäquator
i = Neigung der Trabantenbahn gegen die Ekliptik
Π_1, Π = Perisaturnium
e = Exzentrizität
a = Halbachse der Trabantenbahn in der mittleren Entfernung $(\Delta) = 9.53887$

l_1, Π_1 und Θ werden gezählt vom Äquinoktium aus in der Ekliptik, weiter im Saturnsäquator und dann erst in der Trabantenbahn, l und Π vom Äquinoktium aus in der Ekliptik und weiter in der Trabantenbahn.

Zunächst sind für die sechs inneren Trabanten auf den Seiten 309* bis 317* die Hilfsmittel gegeben, um in bequemer Weise ihre Positionen ableiten zu können. Sieht man hierbei von den Neigungen γ ab, so erhält man die rechtwinkligen Koordinaten x und y des Trabanten in bezug auf ein Achsenkreuz, dessen Anfangspunkt im Mittelpunkt des Saturn gelegen ist, dessen X-Achse parallel der großen Achse des Ringes verläuft, positiv, wenn östlich, negativ, wenn westlich vom Saturn, und dessen positive Y-Achse mit dem durch den Saturnsmittelpunkt gehenden Stundenkreise den Winkel P einschließt, aus den Gleichungen:

$$x = \frac{a(\Delta)}{\Delta} \frac{1}{1+\zeta} \frac{r}{a} \sin(u - U)$$

$$y = \frac{a(\Delta)}{\Delta} \frac{1}{1+\zeta} \frac{r}{a} \sin B \cos(u - U).$$

$(\varDelta) = 9.53887$ bezeichnet den mittleren Wert der Entfernung Sonne—Saturn, $\varDelta$ ist die Entfernung Erde—Saturn, $u = L + (v - M)$ ist die wahre Länge des Trabanten vom Erdäquator an gezählt. Die Größen L und $(v-M)$ sind auf den Seiten 309*—317* und 320*—321* zu finden. $\log \frac{1}{1+\zeta}$ ist auf Seite 319* enthalten.

Ist genaueste Ortsbestimmung erforderlich, so darf man bei Mimas, Tethys und Rhea die Neigungen gegen den Saturnsäquator, da sie schon merklichere Werte annehmen, nicht mehr vernachlässigen; x und y ergeben sich dann aus:

$$x = \frac{a(\varDelta)}{\varDelta} \frac{1}{1+\zeta} \frac{r}{a} \sin(u - U)$$

$$y = \frac{a(\varDelta)}{\varDelta} \frac{1}{1+\zeta} \frac{r}{a} \sin B \left[\cos(u - U) + \sin\gamma \operatorname{cotg} B \sin(u - \vartheta)\right].$$

Die Werte von ϑ, der Länge des aufsteigenden Knotens der Trabantenbahn auf dem Saturnsäquator, gezählt vom Schnittpunkte des Saturnsäquators mit dem Erdäquator, finden sich auf Seite 319*; auch ist hier für Rhea γ, weil stärker mit der Zeit veränderlich, in Intervallen von 16 Tagen gegeben.

Will man aus x und y die Rektaszensions- und Deklinationsdifferenzen bestimmen, so dienen dazu die Gleichungen:

$$s \sin(p - P) = x$$

$$s \cos(p - P) = y$$

$$\varDelta\alpha = \alpha_{tr} - \alpha_{pl} = \frac{1}{15} s \sin p \sec \delta_{tr}$$

$$\varDelta\delta = \delta_{tr} - \delta_{pl} = s \cos p.$$

Auf den Seiten 322*—328* finden sich für die äußeren Trabanten Hyperion und Japetus, außer den Hilfsgrößen U, B und P, die Rektaszensions- und Deklinationsunterschiede gegen den Saturn in dem Sinne Trabant minus Planet.

Die aus den Angaben des Berliner Jahrbuchs ermittelten Trabantenörter sind auf das mittlere Äquinoktium der Epoche bezogen.

Zum Schluß enthalten die Seiten 329*—332* die Zeitangaben (in Welt-Zeit) für die östlichen Elongationen von Mimas, Enceladus, Tethys, Dione, Rhea, ferner für die östlichen und westlichen Elongationen ($u - U = \pm 90°$) und für die oberen und unteren Konjunktionen ($u - U = 0°, 180°$) von Titan, Hyperion und Japetus mit Saturn; diese Zeitangaben für die Elongationen und Konjunktionen sind bereits für Lichtzeit korrigiert, also ohne weiteres mit den Beobachtungen vergleichbar.

Konstellationen (S. 333*—334*).

In der Übersicht der Konstellationen des Jahres 1929 sind die hauptsächlichsten Planeten-Konstellationen gegeneinander und gegen Sonne und Mond, sowie die Angaben der Epochen, zu welchen

sich die Planeten in gewissen Hauptpunkten ihrer Bahn und ihres synodischen Laufes befinden, zusammengestellt. Die Bedeutung der hier verwendeten Zeichen siehe Seite VIII des Vorworts. — Die Konjunktionen der Planeten mit dem Mond und ihre gegenseitigen sind als Konjunktionen in AR. zu verstehen. Die Angaben über Konjunktion und Opposition der Planeten mit der Sonne entsprechen den Zeiten, zu denen der Längenunterschied zwischen Planet und Sonne 0° oder 180° ist.

Hilfstafeln (S. 335*—354*).

Es folgt eine Reihe von häufig gebrauchten Hilfstafeln.

1) Tafeln für Präzessionswerte (S. 335*—337*).

a) Präzession in Rektaszension und Deklination (Seite 335*)

$$p_\alpha = m + \tfrac{1}{15} n \sin\alpha \operatorname{tg}\delta$$
$$p_\delta = n \cos\alpha$$

b) Präzessionswerte m, n, ψ, π, Π und ε, die mittlere Schiefe der Ekliptik (Seite 335*).

Mit diesen Werten berechnet sich die Präzession für die Elemente einer Bahnebene im System der Ekliptik nach:

$$p_\Omega = \psi - \pi \operatorname{cotg} i \sin(\Pi - \Omega)$$
$$p_i = -\pi \cos(\Pi - \Omega)$$
$$p_\omega = \pi \operatorname{cosec} i \sin(\Pi - \Omega)$$

und im System des Äquators nach:

$$p_{\Omega'} = m - n \operatorname{cotg} i' \cos\Omega'$$
$$p_{i'} = -n \sin\Omega'$$
$$p_{\omega'} = n \cos\Omega' \operatorname{cosec} i'$$

c) Präzession in Länge und Breite (Seite 336*—337*)

$$p_\lambda = \psi + \pi \operatorname{tg}\beta \cos(\Pi - \lambda)$$
$$p_\beta = \pi \sin(\Pi - \lambda)$$

Den Tafeln a) und c) liegen die Präzessionswerte für 1925.0 zugrunde. Über die Bedeutung der Bezeichnungen und die Zahlenwerte vergleiche die Erläuterungen zum Jahrbuch für 1916.

2) Tafel des halben Tagbogens (S. 338*—339*), berechnet mit der Horizontalrefraktion 34'.9 für geographische Breiten von +30° bis +60° und Deklinationen von −30° bis +30°.

3) Reduktionstafeln für die Auf- und Untergangszeiten der Sonne und des Mondes (S. 340*—343*). Sie geben die Reduktion der für +50° Breite gültigen Zeiten, wie sie in den Ephemeriden enthalten sind, auf geographische Breiten zwischen +30° und +60° und sind mit der Horizontalrefraktion 34'.9 für das Erscheinen oder Verschwinden des oberen Gestirnsrandes gerechnet.

4) Eine Tafel für die Ermittelung eines Datums in der Julianischen Periode (Seite 344*—347*). Die Tafel besteht aus zwei Teilen: Der erste Teil (S. 344*—345*) gibt in vierjährigen Schaltperioden für die Jahre 0 bis 2000 die Anzahl der am 0. Januar, 12^h Welt-Zeit, seit Anfang der Julianischen Periode verflossenen Tage. Als Ergänzung gibt die Hilfstafel am Fuß der Seite die Anzahl der am 0. jedes Monats, 12^h Welt-Zeit, seit Beginn der Schaltperiode verflossenen Tage. Man gehe bis zum 4. Oktober des Jahres 1582 mit dem Datum des Julianischen, für spätere Jahre mit dem Datum des Gregorianischen Kalenders in die Tafel ein. Der zweite Teil (S. 346*—347*) gibt für die Jahre 1860—1939 unmittelbar die Anzahl der im Gregorianischen Kalender am 0. jedes Monats, 12^h Welt-Zeit, seit Beginn der Julianischen Periode verflossenen Tage.

5) Hilfstafeln zur Verwandlung von Mittlerer Zeit in Sternzeit (S. 348*) und von Sternzeit in Mittlere Zeit (S. 349*).

6) Eine Tafel zur Verwandlung von Stunden, Minuten und Sekunden in Dezimalteile des Tages und umgekehrt (S. 350*—351*).

7) Die Tafel zur Berechnung der optischen Mondlibration (S. 352*—353*) gibt mit dem Argument $\lambda - \Omega$ die Werte $\Delta\lambda$, a und B entsprechend den Gleichungen:

$$\Delta\lambda = \frac{1}{\operatorname{arc} 1'} \operatorname{tang}^2 \frac{1}{2} J \sin 2(\lambda - \Omega)$$

$$a = -\cos(\lambda - \Omega) \sin J$$

$$\operatorname{tang} B = -\sin(\lambda - \Omega) \operatorname{tang} J$$

J = Neigung des Mondäquators gegen die Ekliptik.

Ω = Länge des aufsteigenden Knotens der Mondbahn auf der Ekliptik (s. S. 297*).

λ, β = Länge und Breite des Mondmittelpunktes, berechnet für den Beobachtungsort.

Bezeichnen noch $L_☾$ die mittlere Länge des Mondes, l' und b' die optische Libration der Mondmitte in selenographischer Länge und Breite, so ist:

$$l' = \lambda - L_☾ + \Delta\lambda - a(B - \beta)$$

$$b' = B - \beta$$

Der Winkel C, welchen der Mondmeridian des Mittelpunktes der scheinbaren Mondscheibe mit dem Stundenkreise bildet, ergibt sich aus der Gleichung:

$$\sin C = -\sin i \frac{\cos(L_☾ + l' + \Delta - ☋)}{\cos \delta_☾} = -\sin i \frac{\cos(\alpha_☾ - \Omega')}{\cos b'}.$$

worin $\alpha_☾$, $\delta_☾$ Rektaszension und Deklination des Mondmittelpunktes, gesehen vom Beobachtungsort aus, bezeichnen; die anderen vorkommenden Größen i, Δ, ☋ und Ω' haben schon auf S. 372* ihre Erklärung gefunden.

8) Eine Tafel der Hilfsgrößen s und c (S. 354*) zur Berechnung der geozentrischen Breite φ' und der geozentrischen Entfernung ϱ eines Erdortes, ausgedrückt in Einheiten der großen Halbachse des Erdellipsoids, aus der geographischen Breite φ nach den Formeln:

$$\varrho \sin \varphi' = s \sin \varphi$$
$$\varrho \cos \varphi' = c \cos \varphi$$

Darin haben s und c die Bedeutung:

$$s = \frac{1 - e^2}{\sqrt{1 - e^2 \sin^2 \varphi}}, \quad c = \frac{1}{\sqrt{1 - e^2 \sin^2 \varphi}}, \quad e = \sqrt{2\mathfrak{a} - \mathfrak{a}^2}$$

Gemäß den Beschlüssen der Pariser Ephemeridenkonferenz von 1911 ist dabei die Abplattung $\mathfrak{a} = \frac{1}{297.0}$ angenommen.

Koordinaten der Sternwarten (S. 355*—361*).

Die Seiten 355*—361* enthalten die geographischen und geozentrischen Koordinaten der Sternwarten. Das Verzeichnis ist einer durchgreifenden Prüfung unterzogen worden, wobei eine größere Zahl nicht mehr bestehende Observatorien gestrichen und die Lage der angeführten Sternwarten mit den Angaben des »Nautical Almanac for the year 1929« in Übereinstimmung gebracht worden ist.

Die Seehöhen sind in allen Fällen angegeben, wo sie sich einigermaßen sicher ermitteln ließen.

Die geographischen Längen sind auf den Meridian von Greenwich bezogen und dem entsprechend gibt die »Korrektion der Sternzeit« die Differenz: Orts-Sternzeit minus Greenwicher Sternzeit an.

Die geozentrischen Koordinaten sind den Beschlüssen der Pariser Ephemeridenkonferenz vom Oktober 1911 gemäß unter Annahme der Abplattung 1 : 297.0 berechnet.

Bei Berechnung von $\log \varrho$ ist die Seehöhe berücksichtigt.

Normalzeiten der wichtigeren Länder (S. 362*).

Hier sind die in den wichtigeren Ländern eingeführten Normalzeiten in zwei Gruppen zusammengestellt, je nachdem sie an den Meridian von Greenwich angeschlossen sind oder einen eigenen Landes-Meridian zugrunde legen.

Berichtigungen.

Jahrbuch 1927,	S. 110	Venus, Okt. 20: Die Red. a. d. Bahn ist —2.4 anstatt —2.6.
Jahrbuch 1928,	S. 109	Merkur, Dez. 33, Helioz. Länge: lies 309° 54' anstatt 309° 55'.
	S. 112	Saturn, 1929 Jan. 12: Die Red. a. d. Bahn ist —1 25.4 anstatt —1 25.1.
	S. 380*	Achte Zeile von oben lies S. 388 anstatt S. 338.
Jahrbuch 1929,	S. 6*	Stern 173: Die jährliche Veränderung in Rektaszension ist +8.0455 anstatt +8.0355.
	S. 25*	Bei 30 H. Camel. und ξ Mensae sind die Klammern zu beseitigen, da für diese Sterne Ephemeriden gegeben werden.

Alphabetisches Sachregister